CATALOGUE

EASTERN KENTUCKY STATE COLLEGE

1965/66

BULLETIN

VOLUME LVI

A STANDARD COLLEGE

MEMBER OF

Kentucky Association of Colleges, Secondary and Elementary Schools

American Association of Colleges for Teacher Education

Association of State Colleges and Universities

National Business Teacher Training Institutions

Association for Field Services in Teacher Education

American Association of University Women

American Council on Education

ACCREDITED BY

Southern Association of Colleges and Secondary Schools

National Council for Accreditation of Teacher Education

National Association of Schools of Music

BULLETIN

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CALENDAR 1965

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1965—CALENDAR—1966

FIRST SEMESTER

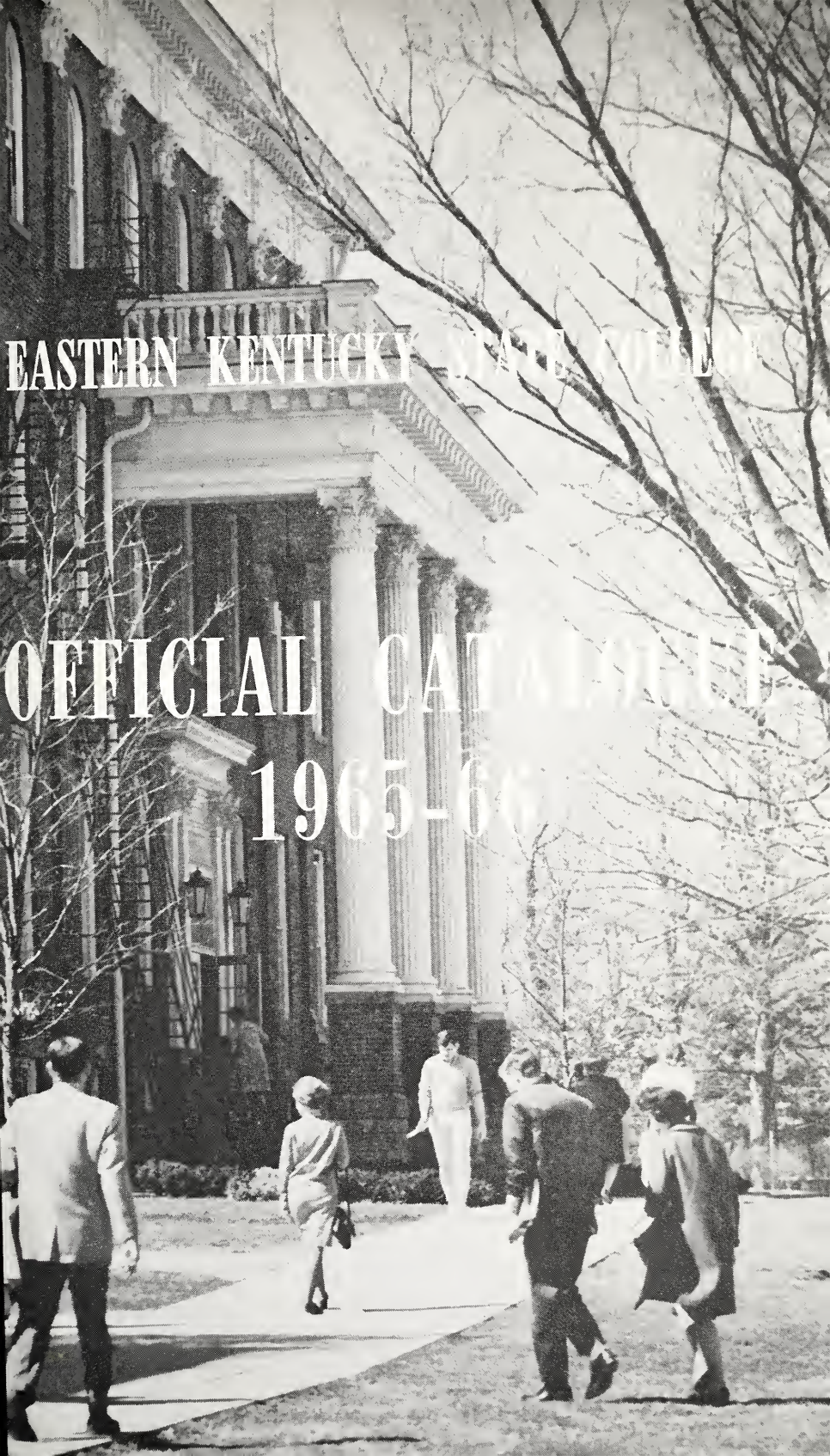
September 10	Friday	10:00 a.m.	Assembly of Faculty, Administrative Staff, and other employees.
September 10	Friday	2:00 p.m.	Faculty Meeting.
September 10	Friday	6:30 p.m.	Faculty Dinner
September 11	Saturday	8:00 a.m.	Registration of Graduate and In-service students (Saturday and Evening classes will register).
September 13	Monday	8:00 a.m.	Classification tests and pictures for first semester Freshmen and transfer students.
September 14	Tuesday	8:00 a.m.	Classification tests and pictures for first semester Freshmen and transfer students.
September 15	Wednesday	8:00 a.m.	Registration of Freshmen.
September 16	Thursday	8:00 a.m.	Registration of upper classmen.
September 17	Friday	8:00 a.m.	Registration of upper classmen.
September 18	Saturday	8:00 a.m.	Late Registration.
September 20	Monday	8:00 a.m.	Classes begin.
September 27	Monday		Last day to enter a course for credit with reduced load.
October 9	Saturday		Last day on which a course may be dropped without a grade.
November 22	Monday	10:00 a.m.	Mid-semester reports to Registrar.
November 24	Wednesday	12:00 noon	School closes for Thanksgiving holiday.
November 29	Monday	8:00 a.m.	Class work resumes.
December 18	Saturday	12:00 noon	Christmas holiday begins.
January 3	Monday	8:00 a.m.	Class work resumes.
January 24-27			Final examinations.
January 28	Friday	5:00 p.m.	Close of first semester.

SECOND SEMESTER

February 2	Wednesday	8:00 a.m.	Registration of Freshmen.
February 3	Thursday	8:00 a.m.	Registration of upper classmen.
February 4	Friday	8:00 a.m.	Registration of upper classmen.
February 5	Saturday	8:00 a.m.	Registration of Graduate and In-service students. (Saturday and Evening classes will register).
February 7	Monday	8:00 a.m.	Classes begin.
February 14	Monday		Last day to enter a class for credit with reduced load.
March 3	Thursday		Last day on which a course may be dropped without a grade.
April 1	Friday	10:00 a.m.	Mid-semester reports to Registrar.
April 11-16			Spring Vacation.
May 29	Sunday	2:30 p.m.	Baccalaureate Service.
May 30	Monday	10:00 a.m.	Commencement.
May 31-June 2			Final examinations.
June 3	Friday	5:00 p.m.	Close of second semester.

SUMMER SCHOOL—1966

June 13	Monday	8:00 a.m.	Summer school registration.
June 14	Tuesday	8:00 a.m.	Classes begin.
June 14	Tuesday		Last day to register for a full load.
June 20	Monday		Last day to enter a course for credit with reduced load.
August 4	Thursday	7:30 p.m.	Commencement.
August 5	Friday	5:00 p.m.	Close of summer school.


EASTERN KENTUCKY
OFFICIAL
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THE COLLEGE

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EASTERN . . . Dedicated to Serving Kentucky Since 1906

INTRODUCTION

Eastern Kentucky State College is a coeducational public institution of higher education offering general and liberal arts programs, and professional training in education and other fields at the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, the campus embraces approximately 325 acres of gently-rolling bluegrass slopes. The main campus centers around a replica of an ancient Greek amphitheater seating 2,500 persons. The natural beauty of the area is enhanced by an abundance of trees and shrubs. The college is housed in 39 buildings, with further expansion under way.

Richmond is on the main line of the L & N Railroad, 112 miles south of Cincinnati, Ohio. Situated twenty-six miles southeast of Lexington, Kentucky, Richmond is conveniently reached by automobile over U. S. Route 25 (Dixie Highway) from Northern Kentucky and Cincinnati to the North and from Southeastern Kentucky to the South. Richmond is also served by U. S. Route 227 and Kentucky Route 52. Combinations of major highways in the state with these highways make Richmond easily accessible from Eastern and Northeastern Kentucky as well as the Bluegrass and Central Kentucky areas and the Metropolitan area of Louisville.

Completion of Interstate Highways, I-64 and I-75, and the Eastern Kentucky Turnpike, will provide greater convenience in automobile travel to Richmond, since the city is located near the convergence of these three arterial highways.

Richmond, the county seat of Madison County, is an expanding community of approximately 13,000 population. Served by fine churches representing most Christian faiths, the community provides an excellent environment for the college student.

In and around Richmond are many areas of historic and scenic interest. Boonesboro, birthplace of Kentucky, is located twelve miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

HISTORY

The General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. W. Beckham signed the bill into law on March 21, 1906, and on May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of old Central University in Richmond, Kentucky, as the site of the new school. On June 2, 1906, Ruric Nevel Roark was chosen President of the Normal school and the training of teachers was initiated.

In 1922, Eastern became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school as the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the College and granted the College the right to award non-professional degrees. During this period of time, Eastern Kentucky State College has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the College today serves thousands of Kentucky's young men and women by offering a curriculum leading to the Bachelor of Arts, or Bachelor of Science degree in teacher education, or in general or professional areas. Further, a graduate program leading to the Master of Arts degree in Education and an additional year's graduate work beyond the Master's degree is offered for those seeking additional training for leadership positions in the field of education.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its chief function as that of preparing excellent teachers for the elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas, enable Eastern to serve the Commonwealth as a general college.

The College has a broad program on offerings in the field of Business Education with a curriculum offering thorough training in secretarial practice, accounting methods and materials, and general business.

PURPOSE

It is the purpose of Eastern Kentucky State College to provide for youth those intellectual and cultural pursuits which will develop in them habits of scholarship and intellectual curiosity; which will provide for them a deep understanding of American democracy and their role in maintaining its strength and vitality; which will imbue them with an understanding of man and his aspirations; and which will enable them to communicate effectively and efficiently.

With this worthy purpose as a basis, Eastern Kentucky State College has detailed its specific aims:

Eastern Kentucky State College has a historic mission in the training of teachers for the classrooms of America.

The purpose of the institution can be met only through a broad and liberal education of all students.

As Eastern Kentucky State College seeks to serve more adequately, it has developed sound curricula to provide instruction in general and specialized fields in order that students may be prepared for professional, technical, and industrial careers.

Eastern Kentucky State College seeks to serve the citizens of the state through the extension of aspects of the college program into other areas and communities. Extension and correspondence courses are offered as the need is evidenced. Lectures and consultant services are available upon request. Concert tours by the various organizations of the Music Department, art exhibits, and dramatic performances round out the cultural service of the institution.

Eastern Kentucky State College attempts to meet these purposes and aims through constant attention to see that the curriculum is such as to give students the basic concepts in their fields of knowledge and the special techniques needed for the mastery of their field. Eastern aspires to motivate each student through superior teaching and counseling, to the end that students will find at Eastern an intellectually-demanding college experience as well as opportunities for social development.

THE CAMPUS

The Eastern campus is endowed with great natural beauty, enhanced by the thoughtful selection and placement of trees and shrubs. The various academic buildings, dormitories, and other buildings are centered around the amphitheater and reflect several styles of design. The map on the inside of the back cover shows the lay-out of the campus. Following are brief descriptions of the major buildings and facilities at Eastern Kentucky State College.

ACADEMIC BUILDINGS

ALUMNI COLISEUM

The Alumni Coliseum houses facilities for physical education, general college classrooms and a basketball playing arena. The physical education facilities include auxiliary gymnasiums, special purpose rooms, locker and shower spaces and an indoor and an outdoor olympic size swimming pool. General classrooms are included for general college use. Spectator seating will accommodate approximately 6,500 persons for basketball games and approximately 7,500 persons for convocations, lectures, and similar events. The building will provide office space for Physical Education faculty, Department of Athletics staff and R.O.T.C. staff.

BERT COMBS BUILDING

The Bert Combs Building was named to honor a former governor of the Commonwealth of Kentucky. Completed in 1964, the building houses the Departments of English, Business, and Education, and the Graduate School. The four-story building is completely air-conditioned and provides teaching stations for 2,200 students. It contains two large lecture rooms and provides offices for members of the faculties of these departments. Of striking design, the exterior of the building is faced with cut limestone and provides a unified concept in the heart of the academic campus.

CAMMACK BUILDING

The James W. Cammack Building was named to honor an appointee to the first Board of Regents of the College in 1906. In the summer of 1961, this building was completely renovated and is currently used to house the Art Department, Foreign Language Department, and other departments of the College. The exhibit room of the Art Department is located on the first floor and a modern, well-equipped language laboratory on the second floor is used by the Foreign Language Department.

COATES ADMINISTRATION BUILDING

The Thomas Jackson Coates Administration Building was named in honor of Eastern's third president. The offices of the President, Dean of Academic Affairs, Dean of Admissions and

Registrar, Coordinator of Public Affairs, Dean of Business Affairs, and other administrative personnel are located in this building. The building contains the Hiram Brock Auditorium which has a seating capacity of 1,700. The auditorium has a stage 40 feet by 30 feet, equipped with adequate curtains and drops, and a modern motion picture projection room. In 1965 a thorough renovation of this facility was completed. In this renovation the building was completely air-conditioned, refurbished, and included the installation of a pipe organ in the Brock Auditorium.

CRABBE LIBRARY

The John Grant Crabbe Library, named to honor Eastern's second president, occupies a central and convenient position on the campus. A major reconstruction of this facility is currently in progress. This reconstruction will provide approximately 140,000 square feet of floor space for library purposes. The design provides for diversified stacks with study areas adjacent. Individual study carrels are located throughout the building. Fully air-conditioned, this library will provide seating spaces for 3,000 students at any one time.

DONOVAN BUILDING

The Donovan Building, named to honor the late Dr. Herman Lee Donovan, fourth president of Eastern Kentucky State College and President Emeritus of the University of Kentucky, was first occupied in September of 1961. This building consists of several units housing the laboratory school of Eastern Kentucky State College, and provides college classrooms. The facility is complete in all respects, utilizing modern concepts in design and equipment. Facilities are included for the laboratory school, from the kindergarten through the twelfth grade, with appropriate units designed for physical education, music, arts and crafts, and general academic work at the elementary and secondary levels. Completely air-conditioned, this building compares favorably with any similar facility in the nation. In 1965, construction for an addition to the Donovan Building was begun. This addition will provide additional elementary classrooms, a nursery school, and studios for educational television and FM radio.

FITZPATRICK ARTS BUILDING

This building was named to honor H. D. Fitzpatrick, Sr., a long-time member of the Board of Regents of the College. The Fitzpatrick Arts Building houses the Departments of Industrial Arts and Home Economics. The Gibson Addition to the building in 1961 added to the Industrial Arts shop and classroom facilities.

STEPHEN COLLINS FOSTER MUSIC BUILDING

The Stephen Collins Foster Music Building houses the Music Department and provides classrooms for other divisions of the College. Facilities include, in addition to classrooms, nineteen practice rooms, ten studios, a band room and a chorus room, a number of auxiliary rooms such as offices for the head of the Music Department and the band director, listening rooms for music appreciation, student and faculty lounges, and storage and locker space. The building was air-conditioned in the spring of 1961.

ROARK BUILDING

Roark Building was named to honor Dr. Ruric Nevel Roark, Eastern's first president. In 1965, this building was renovated, refurbished and completely air-conditioned. The building will provide facilities for the Departments of Mathematics and Geography and Geology.

SCIENCE BUILDING

The Science Building is a modern four-story structure housing spacious, well-equipped laboratories and lecture rooms for the departments of Biology, Chemistry, and Physics.

Roark Building

TURLEY HOUSE

The Turley House is the residence for those students in the Home Economics Department who take the laboratory course in household management. Here the girls live and work together for nine weeks, cooperatively preparing their own meals, doing their own marketing, entertaining their guests, and making a pleasant home life for themselves.

UNIVERSITY BUILDING

The University Building was constructed in 1874 to house old Central University. This four-story brick structure is the oldest academic building on the campus. In the summer of 1961 the building was completely renovated to house the J. T. Dorris Museum and the departments of History, Social Studies, Anthropology, and Sociology.

WEAVER HEALTH BUILDING

The Weaver Health Building is named for the late Charles F. Weaver of Ashland, Kentucky, who served on the Board of Regents at Eastern from 1920 to 1932. In 1965, a renovation of this building was completed, converting it to a Health and Physical Education facility for women students. The building provides a large gymnasium, a spacious modern dance studio, an official size tile swimming pool, handball courts, several classrooms, and faculty offices.

Cammack Building

RESIDENCE BUILDINGS

BURNAM HALL

Burnam Hall was named for Judge A. R. Burnam, who served in the Kentucky General Assembly, and helped Eastern secure her first significant appropriation. It provides beautiful, comfortable, and fireproof living quarters for 370 students. Most of the rooms are arranged in suites of two with a connecting bath. A few rooms have private baths.

CASE HALL

Case Hall was named to honor Mrs. Emma Y. Case, Dean of Women of the College from 1932 until her retirement in 1962. The dormitory provides living accommodations for 550 women students. In addition to bedrooms, the building contains spacious reception, lounge, parlor and recreational spaces. A large grill provided in the dormitory will seat approximately 175 persons.

McGREGOR HALL

McGregor Hall is a six story dormitory designed to provide excellent living accommodations for 448 women students. This dormitory is completely air-conditioned and includes lounge and recreational spaces. This excellent facility, named to honor Judge Thomas B. McGregor, a current member of the Board of Regents, was first occupied in September, 1964.

SULLIVAN HALL

Sullivan Hall is a dormitory for women and accommodates 172 students. It was named for the first local regent, Jere A. Sullivan, who helped establish the first two normal schools in Kentucky. Sullivan Hall is a comfortable and convenient home for the women who live there. Central baths are located on each floor of the building.

BECKHAM HALL, McCREARY HALL, AND MILLER HALL

Beckham Hall, Miller Hall, and McCreary Hall are three units so designed as to form a complex. Each of the dormitories provides accommodations for forty-eight men students. The rooms in these three halls are arranged in suites of four rooms and one bath. For each pair of such sections, one above the other, there is an outside entrance. Office and lounge facilities for these halls are located in Beckham Hall.

Beckham Hall is named for the late J. C. W. Beckham, who was Governor of Kentucky when Eastern was founded. McCreary Hall is named for James B. McCreary, a Richmond citizen, who twice served the State as Chief Executive. Miller Hall is named for Robert W. Miller, a Madison countian, who introduced in the lower house of the General Assembly a bill establishing Eastern.

EARLE B. COMBS HALL

Combs Hall replaced Memorial Hall and forms a quadrangle with Keith, Miller, Beckham and McCreary Halls. This dormitory, completely air-conditioned, provides living spaces for 238 men students. Lounge and recreational facilities are included in the facility.

The hall was named to honor Mr. Earle B. Combs, Sr., a member of the Board of Regents of the College.

KEITH HALL

Keith Hall, a dormitory for men, is a modern, fireproof structure containing 88 bedrooms, a spacious lounge, offices, and auxiliary facilities. It has built-in furniture. The entire building has mechanical ventilation that is designed not only to keep a supply of fresh air in each room, but also to regulate the temperature. Keith Hall was named in honor of the late Dr. Charles A. Keith, former Dean of Men at Eastern Kentucky State College, and Mrs. Keith.

O'DONNELL HALL

O'Donnell Hall is a four-story fireproof structure containing 100 bedrooms for men students. This hall was occupied for the first time in February, 1959. A spacious and beautifully furnished lounge, a post office with individual mail boxes, and an adequate parking lot make this residence hall a very well equipped facility. This hall was named to honor Dr. W. F. O'Donnell, President-emeritus of Eastern Kentucky State College.

O'Donnell Hall

Martin Hall

MARTIN HALL

Martin Hall is a dormitory that houses 404 men students and contains an air-conditioned cafeteria, spacious recreation and lounge space, and service facilities.

This outstanding dormitory was named to honor Dr. Robert R. Martin, at the time of his inauguration as the sixth president of Eastern Kentucky State College.

MATTOX HALL

Mattox Hall is constructed adjacent to and at right angles with O'Donnell Hall and connected to it by a colonade. This hall matches O'Donnell Hall in all respects and, in addition, contains a snack bar and recreation facilities. This dormitory was occupied for the first time in 1961. Mattox Hall was named to honor M. E. Mattox, Registrar of the College since 1925.

TODD HALL

Todd Hall, one of the twin towers, is a twelve story dormitory recently completed and occupied. This facility provides space for 320 men students and is fully air-conditioned. Todd Hall was named to honor Dr. Russell I. Todd, a current member of the Board of Regents.

DUPREE HALL

Dupree Hall, the other twin tower, matches Todd Hall in design and capacity. Fully air-conditioned, this men's dormitory will be occupied in the summer of 1964. Dupree Hall was named to honor Mr. F. L. Dupree, a current member of the Board of Regents.

PALMER HALL

Palmer Hall is a completely air-conditioned dormitory providing living facilities for 300 men students. This dormitory will be ready for occupancy during the 1965-66 academic year. The building was named to honor Mr. Wilson Palmer, a member of the Board of Regents.

SIDNEY CLAY HALL

Sidney Clay Hall, named to honor a member of the Board of Regents, provides living accommodations for 420 women students. The dormitory is completely air-conditioned and includes lounge facilities and other service spaces. The building contains a modern cafeteria which seats approximately 300 people. This facility will first be occupied during the 1965-66 academic year.

BROCKTON

Brockton is the family housing project at Eastern. It consists of 144 modern fire-resistant apartments in all. There are 72 efficiency units, 41 one-bedroom units, and 32 two-bedroom units.

The apartments are furnished with an electric refrigerator and gas range. The efficiency units also contain a sleeper couch and a five-piece dinette set. Each apartment has an individual thermostatically-controlled gas furnace, tile floors, and accoustical ceilings. The bath includes both shower and tub. A coin-operated laundry with both washers and driers is conveniently located in the project area.

Brockton was named in honor of George Marshall Brock, who has been associated with the College since 1918, and the Business Agent since 1923.

TRAILER PARK

A modern trailer park has been constructed adjacent to Brockton. Paved roadways, landscaped area, adequate space and complete utility services are included. The park will accommodate trailers of all sizes.

Brockton

OTHER FACILITIES

In addition to the residence units listed above, the College owns or operates several other facilities for the housing of students. Among these are the Lancaster House and Stateland House for single men students and several apartments and dwellings on campus for the housing of faculty and staff.

OTHER BUILDINGS

JOHNSON STUDENT UNION BUILDING

The Keen Johnson Student Union Building contains club rooms for students, recreation halls, the Little Theater, bookstore, soda fountain and grill, cafeteria, faculty rooms, and a spacious reception room. It was named in honor of a former Governor of Kentucky who was a member of the Board of Regents at the time it was constructed. In 1961 the Student Union Building was renovated and refurnished to provide more extensive services for students, faculty and friends of the College.

BLANTON HOUSE

The two-story brick residence, which is the President's Home, was constructed in 1886 as a residence for the Chancellor of Central University but did not become the property of the College until 1912. This residence has served as the home of Eastern's presidents since that date.

HANGER STADIUM

The Hanger Stadium was built by a donation from Mr. Arnold Hanger together with gifts from students, faculty, and friends of the College and supplemented by a Federal Grant. The stadium has a seating capacity of 7,000 persons for intercollegiate football.

AULT SERVICE BUILDING

The Ault Service Building was named in honor of William A. Ault, who served the College for 45 years as Superintendent of Buildings and Grounds.

This modern facility was completed in 1962. The building not only provides modern shops and office space for the entire maintenance department, but serves as a central supply and storeroom for all departments on the campus.

COLLEGE FARM

The College operates a modern farm, engaging in dairying and production of various crops. The farm operation is located away from the main campus and is housed in up-to-date buildings, providing modern sanitary facilities for the production of food products.

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Part 2

EXPENSES AND LIVING ACCOMMODATIONS

EXPENSES

The following list of fees is required of students. All fees must be paid at the time of registration. Incidental fees paid each semester entitle the student to use of the library, to use of the Student Union Building, and to other services as directed by the Board of Regents.

Registration and Incidental Fees (Per Semester)	Kentucky Resident	Out-of-State Resident
Registration Fee:		
Full-time—Graduate and Undergraduate	$87.50	$200.00
Part-time—Undergraduate (Fewer than 12 Semester Hours), per hour	7.50	17.00
Part-time—Graduate (Fewer than 9 Semester Hours), per hour	10.00	23.00
Incidental Fee:		
Full-time	19.75	19.75
Includes: Health fee $3.00		
Student Union fee:		
Classroom fee 5.00		
Activity fee 8.00		
Yearbook 3.75		
Part-time	2.50	2.50
Includes: Classroom fee		
Registration and Incidental Fees (Summer Term)		
Registration Fee:		
Full-time—Graduate and Undergraduate	43.75	100.00
Part-time—Undergraduate (Fewer than 6 Semester Hours), per hour	7.50	17.00
Part-time—Graduate (Fewer than 6 Semester Hours), per hour	10.00	23.00
Incidental Fee:		
Full-time	8.00	8.00
Includes: Health fee $1.50		
Student Union fee:		
Classroom fee 2.50		
Activity fee 4.00		
Part-time	1.25	1.25
Includes: Classroom fee		

Special Fees	Per Course
Home Economics	
204, 215	$ 7.50
302	5.00
Health and Physical Education	
Locker Fee	4.00
Music	
Class Instruction, per semester	
Class Winds and/or Class Strings	5.00
Class Piano and/or Class Voice	12.00
Individual Instruction, per semester	
All instruments and voice.....Two lessons per week	37.50
One lesson per week	25.00
Practice Room, Piano, Voice, one hour daily per semester	5.00
Practice Room, String and Wind Instruments, one hour daily per semester	2.50
Use of college-owned instrument, string or wind, per semester	5.00
Military Science	
Uniform Deposit	7.00
Other Expenses	3.00

Other Expenses	
Late Registration Fee (per day late)	1.00
Voluntary change of schedule	1.00
Transcript Fee (other than initial copy)	1.00
Graduation Fee (includes cost of diploma, cap and gown rental, and other graduation expenses)	
Baccalaureate Degree	7.50
Master's Degree	20.00
Post Office Box Rent	1.00
Return Check Fine	5.00

COLLEGE YEARBOOK

A portion of the incidental fee each semester goes toward the cost of the college yearbook, the *Milestone*. The portion collected the first semester provides for the student photograph to be included in the yearbook. The portion collected the second semester provides for the printing cost of the yearbook.

DEFINITION OF RESIDENT STUDENT FOR FEE ASSESSMENT PURPOSES

The following policy, adopted by the Council on Public Higher Education, Commonwealth of Kentucky, in accordance with Section 164.020(2) of the Kentucky Revised Statutes, is applied to determine a student's eligibility for fees assessed Kentucky residents who enroll at any of the state-supported institutions of higher

learning in the Commonwealth of Kentucky. This determination is made at the time of initial enrollment and shall not be changed thereafter except as provided below.

A student under twenty-one years of age is eligible to register as a resident of Kentucky if his parent or legal guardian has maintained continuous residence in the Commonwealth for twelve months immediately preceding his original enrollment. No person shall be considered to have gained residence in the Commonwealth while a student unless or until his parent or legal guardian moves into the Commonwealth and acquires residence. If a student is registered as a resident of the Commonwealth and his parent or legal guardian thereafter moves out of the Commonwealth, the student will become a non-resident at the beginning of his next enrollment. If the parents have different domiciles, the domicile of the parent who has legal custody of the student's person shall be considered the domicile of the student.

A student twenty-one years of age or older is eligible to register as a resident if he has maintained continuous residence in the Commonwealth for twelve months immediately preceding the date of his original enrollment, exclusive of any time spent in attendance at any institution of higher learning. An adult student registered as a non-resident upon his original entrance cannot generally thereafter acquire resident status.

An adult student from out-of-state who seeks residence status must assume the burden of proving conclusively that he has been a resident of the Commonwealth the requisite time with the present intention of making his permanent home in this state. In general, it is assumed that the intent to remain indefinitely in the Commonwealth is evidenced not only by what a person states but what a person has actually done. Normally, persons with intent to establish residence will be expected to have done all those things which a person customarily does when establishing a permanent residence, some of which are: obtaining full time employment, establishing a home, buying property, filing tax returns, transferring or establishing church membership, affiliating with local organizations, and the various other things which give evidence of intent to remain indefinitely within the Commonwealth.

Each Board of Trustees or Board of Regents is authorized to establish a Non-Resident Fees Committee to consider changes in resident status based on the above criteria. Application for change of resident classification should be made to the person who has been designated by the Board of Trustees or Regents as the Chairman of the Non-Resident Fees Committee. The Chairman will present each case to the Committee for a final decision.

This policy shall be applicable with exceptions allowable for possible conflicts with state and federal laws relating to residency such as the Federal Soldiers and Sailors Relief Act.

All rooms have single beds for which pillows and linens are furnished. The College bears the expense of having these sheets and pillow cases laundered. Each student is expected to provide his own blankets, towels, window drapes, and similar articles.

	Rent for Semester (Includes $7.00 Linen Service)	Rent for Summer (Includes $4.00 Linen Service)
Residence Halls for Women		
Burnam	$105.00	$52.50
Case	105.00	52.50
McGregor	115.00	57.50
Sidney Clay	115.00	57.50
Sullivan	105.00	52.50
Residence Halls for Men		
Combs	115.00	57.50
Dupree	115.00	57.50
Keith	105.00	52.50
Martin	105.00	52.50
Mattox	105.00	52.50
Miller, Beckham, and McCreary	105.00	52.50
O'Donnell	105.00	52.50
Palmer	115.00	57.50
Todd	115.00	57.50

DORMITORY POLICIES

All students desiring housing at Eastern Kentucky State College should complete an application for a room reservation and forward it to the Dean of Students, Eastern Kentucky State College, Richmond, Kentucky.

An advance rental payment of $45.00 should accompany the application. This payment is necessary before a reservation will be made. It will be applied to the rent for the first semester following enrollment. The advance payment will be refunded in full if cancellation is received by August 15 for the first semester, January 15 for new students for the second semester, or May 15 for the summer term respectively.

Reservations will be held only through the day preceding the first day of classes, unless students have made arrangements with the College for late arrival.

Refunds of rent after a room is accepted shall be made only in exceptional instances. In no case shall a refund of rent be made to students moving from the College housing at their convenience.

Dormitory rent is paid by the semester and is due and payable at registration.

STUDENT IDENTIFICATION CARD

Each full-time student who has paid the full fees for a semester, including the activity fee, will be issued a personal identification card. This card entitles the student to admission to all athletic contests on the campus and to certain other programs sponsored by the College. It must be carried by the student at all times for official identification on the campus, and all full-time undergraduate students must have a valid card before registration is completed.

If the card is lost, it must be replaced. A replacement fee of $10.00 is assessed. Application for replacement must be made at the office of the Dean of Students.

LIVING ACCOMMODATIONS

Eastern Kentucky State College maintains a number of residence halls for single students. Within limits of the capacities of these halls all single students not living at home are required to live in College facilities. No single student should make a housing contract to live in town unless permission has been secured from the Dean of Students. When the capacity of the halls has been reached single students may secure lodging in approved homes downtown which must be on the housing office approved list (single students will **not** be given permission to live in apartments and trailers). All students, whether living in College or private facilities, are subject to regulations and supervision of the College.

Air-conditioned Sidney Clay Hall will house 324 coeds. The 11-story dormitory is named for Sidney Clay, a member of the college board of regents.

REFUND POLICY

Refunds of fees and room rental charges, when authorized, shall be made on a schedule based on the time elapsed during the semester or summer term. During the semester, refund of a portion of the fees and room rental paid shall be made as follows: first and second weeks, 75%; third and fourth weeks, 50%; fifth and sixth weeks, 25%. After six weeks, no refunds will be made. During the summer term, the following schedule will determine the portion refunded: first week, 75%; second week, 50%; third week, 25%. After three weeks, no refund will be made. (For the purpose of this calculation, the week will begin with the first day of registration for the semester or summer term.)

The percentage of refunds shall apply to all fees and room rentals paid, except that no refund can be made on fees collected for student insurance premiums, class dues, and similar fees.

FOOD SERVICE

The College operates several food service facilities on the campus. Large modern, air-conditioned cafeterias in the Johnson Student Union Building, Martin Hall, and Sidney Clay Hall serve attractive, wholesome meals at reasonable prices. In addition, snack bars are located in the Johnson Student Union Building, Case Hall, Martin Hall, Mattox Hall, and Weaver Health Building.

SCHOLARSHIPS, FINANCIAL AID, AND STUDENT EMPLOYMENT

SCHOLARSHIPS

The William Davis Scholarship. Under the provisions of the will of the late William Davis of Newport, Kentucky, a sum of money was left for the benefit of the student living in the Lona Estella Davis school district of Rowan County. Scholarships of $200.00 each are awarded by the Superintendent of Rowan County schools and the President of Eastern Kentucky State College. A student desiring to secure one of these scholarships should write to the Chairman of Student Aid Committee, Eastern Kentucky State College, or make application to the Superintendent of Rowan County Schools.

The Myrtle Mae Sloan Memorial Fund was established in 1959, in memory of Miss Myrtle Mae Sloan, by her sister, Miss Viva Odean Sloan, resident of Berea, Kentucky. The income from this fund will be paid to a high ranking student who needs help to enable him or her to remain in college.

The Lily Christopher Ogg McWhorter Memorial Fund was established in 1959, in memory of Mrs. Nina Rachel Ogg Pee and William Emery Ogg, graduates of Eastern, by their sister, Mrs. Lily Christopher Ogg McWhorter. They were all residents of Madison County. The income from this fund is to provide financial aid for persons of good ability but of little money.

In the field of Music there are three scholarships awarded annually to those students who make the most satisfactory progress in piano, voice, and violin.

Phi Delta Kappa Scholarship. The Epsilon Rho Campus Chapter of Phi Delta Kappa, an education fraternity for men in education, awards a full tuition scholarship each year to a full-time male graduate student. Applications and information may be secured by writing to the Graduate Office. Applications must be submitted by July first of each year.

ROTC Scholarships. Under the provisions of Public Law 88-647 a limited number of two year ROTC scholarships are available for award to outstanding military students who have completed the basic ROTC course. These scholarships provide for payment of tuition, fees, book costs, laboratory expenses and retainer pay of fifty dollars ($50.00) per month. Selection of individuals will be based on criteria established by the Secretary of the Army and by action of an on-campus board consisting of the Professor of Military Science and other representatives from the faculty.

LOAN FUNDS

The National Defense Student Loan Program at Eastern provides loans for students. Priority is given to all students who have superior records in high school and college. To get application forms and a statement of conditions relating to the loans, applicants should send their requests to the Chairman of the National Defense Student Loan Fund, Eastern Kentucky State College.

The Student Loan Fund of the Eastern Kentucky State College is designed to help worthy students complete their education. It has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to upperclass students. Those having high scholarship records will be given preference in the granting of loans. This fund makes it possible for a student to borrow a small amount of money on a personal note at a legal rate of interest. Students who desire further information concerning this fund should get in touch with the Chairman of the Student Aid Committee.

STUDENT EMPLOYMENT

There is opportunity for student employment, whereby a limited number of students may earn a part of their expenses by working in the College Cafeteria, Library, Bookstore, Post Office, Dormitories, Administrative Offices, College Dairy and Farm, Maintenance Department, and Faculty Offices. Some students may also secure part-time employment in Richmond stores, restaurants, and other businesses.

Student labor should be limited so that work hours will not take too much of the student's study time. While ten hours per week is an average labor load, circumstances may permit a greater number of hours. No student, however, should enter the College without sufficient money for the semester unless there is a definite guarantee of work to support him.

THE WORK-STUDY PROGRAM

Under a grant from the Federal Government, made possible by the Economic Opportunity Act of 1964, eligible students may be employed on a part-time basis while in full-time enrollment at Eastern. This program supplements the part-time employment program which has been in effect at Eastern for many years.

A student or prospective student from a low-income family is eligible for employment under the Federal Work-Study Program. The student must enroll for a minimum of twelve semester hours of course work each semester and make satisfactory academic progress.

Students who qualify under this program will be employed in various jobs on the campus: in faculty or administrative offices, in food service units, in dormitories, in the Division of Buildings and Ground, or in other phases of the academic or service programs. Placement will depend upon the skills, interests and aptitudes of the student and the availability of positions open at a given time. Students may work as many as fifteen hours per week and can earn from $11.25 per week up to $15 per week depending upon the type of job assigned. Payments are made to the student employee on a bi-monthly basis.

It is the policy of the administration that prospective students should have a high school scholastic standing of "C" or better in order to apply for student financial aid. A statement from the student's principal or guidance counselor should accompany the application to verify the high school scholastic standing of a "C" or better.

Students may continue under this program as long as their academic performance and their work on the job are satisfactory.

OTHER FINANCIAL ASSISTANCE

The Veterans Program at Eastern Kentucky State College is approved by the Veterans Administration for the education of veterans under the provision of Public Law 894 and Public Law 634. Students concerned with veterans training should have, at the time of registration, a Certificate of Eligibility. This is secured from the Regional Office of the Veterans Administration. The College is responsible for the completion of certain Veterans Administration forms and for the other necessary information about students who receive this aid.

If you have completed courses while in the Armed Forces, ask the Registrar about the possibility of receiving credit for such courses.

VOCATIONAL REHABILITATION

Vocational Rehabilitation for students with physical handicaps of various kinds may be approved, and may receive financial benefits as approved by the Department. Students who wish to consult with a representative relative to vocational rehabilitation should write the Department of Education, Division of Special Education, Frankfort, Kentucky, for specific instructions.

STUDENT SERVICES AND ACTIVITIES

Eastern Kentucky State College strives at all times to furnish services and activities which make the campus a home away from home. Our services are concerned with all phases of students' lives, and are so organized that we attempt to help every student to realize his or her own possibilities. Caring for personal and social needs, promoting the maximum growth of every student, and developing effective programs to meet the needs of a changing student body in a shifting world social scene receives high priority in the minds of our faculty, staff and administration.

Our operating policies represent the combined wisdom of students, faculty, and administration. Our services to students are coordinated through the student personnel programs and administered by a group of people who have a genuine interest in developing ideal programs to meet the needs of one of the largest student bodies in Kentucky. While it isn't possible to list in detail all the specific activities and services to students, you will find many of them described in this catalog.

STUDENT HEALTH SERVICES

Student health services are under the direction of the college physician. The Infirmary is staffed by registered nurses on a 24-hour per day basis. In addition to the infirmary services, the college provides instruction in first aid, safety, personal and community hygiene. In case of serious illnesses, there are three hospitals located near the college campus.

STUDENT AUTOMOBILES

On July 9, 1962, the Council on Public Higher Education adopted a policy concerning the possession and operation of motor vehicles by students at the University of Kentucky and the five State colleges. In conformance with the Council policy, Eastern has adopted the following: Students registered as freshmen (0-29 hours) do not have auto privileges. All sophomores (30-59 hours) with less than a "B" average are forbidden to possess and/or operate a motor vehicle in the Eastern-Richmond area. Sophomores with a "B" average or above who are not on social probation are eligible for auto privileges. All juniors and seniors who are not on academic or social probation are also eligible for auto privileges.

GUIDANCE AND COUNSELING SERVICES

The student personnel services of the College are related to: (1) Admission of new students; (2) Orientation of Freshmen; (3) Evaluation and counseling of students; (4) Mental and physical health; (5) Provision for well-rounded student activities; (6) Supervision of adequate living facilities; (7) Maintenance of useful personnel records; (8) Provision for employment, placement, and follow-up requirements; and (9) Vocational information. Files on occupations and job opportunities are available on campus.

Many staff members handle various aspects of the student personnel work. The Dean of Students and his staff, together with all members of the faculty, provide counseling for students. Counsel, relative to social life, living facilities, and related problems of students, and other specialized guidance as needed by students and as implied by a modern philosophy of education, is readily available.

All new students at Eastern are assigned to a counselor to guide them toward the initiation of a successful college career.

Optional services are available to help individuals with their planning and clinical services are arranged to meet special needs. All personnel activities are designed to be practical in that they are provided to help students attain a maximum personal, social, and academic development in a stimulating environment.

Many types of tests are utilized in the college program. All freshman and transfer students participate in a testing program. The results are used in counseling, placement and scheduling of classes. Several departments give tests for the purpose of locating talent, interests, and aptitudes of the student body. The graduate school gives tests for admission to the program.

ATHLETICS AND RECREATION

Eastern offers a fine and varied athletic and recreational program for both men and women students. It consists of three major programs: Intercollegiate Athletics, Intramurals for Men, and Women's Recreation Association activities for women.

Eastern Kentucky State College is a member of the Ohio Valley Athletic Conference and the National Collegiate Athletic Association. The Ohio Valley Conference annually produces teams that have top ranking among universities and colleges in the United States. In addition to these conference contests, representative teams from all parts of the country are scheduled. Intercollegiate competition is carried on in eight different sports. They are: football, basketball, swimming, tennis, golf, track, cross country, and baseball.

SOCIAL ACTIVITIES

The Social Committee of the College also arranges a multitude of social activities for the benefit of Eastern's students. Such activities as movies, dances, receptions, and parties are planned so the student can achieve maximum enjoyment. Every student has the chance to participate in a leisure time activity of his or her choice.

STUDENT ORGANIZATIONS

The student organizations, societies and clubs form an intrinsic part of the program of Eastern Kentucky State College that fulfills academic, social and religious functions. The student organizations at Eastern offer varied activities to encompass the interests of all students.

Honorary Societies: Collegiate Pentacle, Cwens, Kappa Iota Epsilon, and Omicron Alpha Kappa.

Departmental Organizations: Accounting Club, Agriculture Club, Alpha Alpha Psi of Kappa Pi, Alpha Psi Omega, Association for Childhood Education, Association of United States Army, Behaviorial Science Symposium, Biology Club, Caduceus Club, Canterbury Club, Chemistry Club, Drum and Sandal, Eastern Little Theater, Home Economics Club, Industrial Arts Club, Kappa Delta Pi, Kappa Kappa Sigma, Music Educators National Council, Pershing Rifles, Physical Education Majors and Minors, Pi Omega Pi, Polity Society, Polymathologists, Scabbard and Blade, Sigma Tau Pi, Student National Education Association, Women's Recreation Association, World Affairs Club.

The College band, choir, and orchestra have programs, on and off campus, during the school year.

Religious Organizations: Baptist Student Union, Christian Science College Organization, Christian Student Fellowship, Church of Christ, Episcopal Canterbury Club, Newman Club, Pi Tau Chi, Wesley Foundation, Westminster Fellowship, Young Men's Christian Association, and Young Women's Christian Association.

Class Organizations: The Freshman, Sophomore, Junior, and Senior Classes each have organizations for the purpose of improving student life at Eastern.

Activity Organizations: Kyma Club, Photo Club, Varsity E Club, Young Democrats Club, and Young Republicans Club.

Service Organizations: Circle K International, Kappa Delta Tau, Men's Inter-Dorm Council, Sigma Chi Delta, Sigma Chi Mu, Student Council, and Women's Inter-Dorm Council.

County and Regional Clubs: Twenty county and regional clubs are now organized on the campus. These organizations promote social events, encourage good academic achievement, and serve as recruiting agencies.

Other Student Organizations: Alpha Zeta Kappa, Collegiate Council of United Nations, Student Discussion Club, and Veterans Club.

STUDENT PUBLICATIONS

THE EASTERN PROGRESS, weekly student newspaper, is the official student publication of the College, and all students are encouraged to take advantage of the journalism training offered by the Progress organization. With the recent reorganization of the newspaper, it is considered as perhaps the finest newspaper in the College's history.

THE MILESTONE is the College yearbook. Published annually this publication contains photographic and statistical records of all organizations and events of the College year in an attractive manner. The book is distributed during the last two weeks of the spring semester.

Both the *Progress* and *The Milestone* have received numerous national awards in recent years and are ranked annually among the top publications in the nation.

BELLES LETTRES is a magazine of student writing edited and published by the Canterbury Club, an organization of English majors and minors who meet monthly to encourage interest in literary activity. The magazine accepts poems, one-act plays, and short stories from any student. It is issued each year near the end of the spring semester.

CULTURAL ACTIVITIES

Every effort is made at Eastern to surround the students with cultural advantages. The programs presented are planned as part of the students' education and much time and effort is put forth to provide programs that will be of benefit to students.

Assemblies are held regularly and special assemblies are held when the occasion warrants. While programs at these assemblies are designed primarily for the students and faculty, visitors to the campus are welcome to attend. Programs planned for these assembly periods include appearances by nationally recognized lecturers and artists. Programs are provided on other occasions by lecturers or musical groups which have relationship

to the College. Many fine programs are furnished by the Music Department of the College. Important College matters are officially presented to the student body by the President.

Freshmen are required to attend assembly as a part of their orientation course.

Concert Series are presented at the College in cooperation with the Community Concert Association. Students are admitted to these excellent programs without charge. These programs feature some of the outstanding individuals and groups in the nation.

Art Exhibits, maintained by the Art Department, are on continuous exhibition and feature the works of America's foremost artists as well as the works of artists from other countries. This exhibition is housed in the Exhibit Room, Cammack Hall. In addition, special exhibits are sometimes arranged for showing in the Student Union Building.

Church Affiliation is recognized as an important factor in the life of any student. Eastern is a state-supported institution and is, therefore, non-denominational. The College has a basic objective in helping to develop ethical character among all students. There is close cooperation between the institution and several fine churches in Richmond. Students are encouraged to attend church services in town. Eastern makes spaces available for several student church organizations to meet on the campus.

Dramas are presented by the Eastern Little Theatre and every College student may take part in their stage productions. Dramatic productions each semester provide opportunities in acting, directing and some technical aspects of the theater. Large groups of students enjoy our campus productions.

Each year many groups utilize facilities of the College for conferences, workshops, and other meetings. Frequently, these groups will present concerts, recitals, or lecturers of note. Often students are invited to attend these meetings.

STUDENT AWARDS

The Delta Alpha Chapter of Kappa Delta Pi annually presents two cash awards to the outstanding sophomore man and woman with the highest scholastic standing who plan to enter the teaching profession.

The Gladys Perry Tyng Award for excellence in elementary education is presented annually by the School of Education to a senior man and woman. The certificates of award are given in honor of Mrs. Tyng, who was associated with the elementary education program at Eastern as professor of education from 1920 to 1961.

The Charles F. Weaver Fund is a fund of $1,000.00 established by the late Charles F. Weaver, long-time member of the Board of Regents, to encourage proficiency in oratory and home economics.

The income from the fund is used to provide prizes to be awarded annually to the male student who excels in oratory and to the female student who has made the greatest advance in the field of home economics. The recipients are selected by a faculty committee.

The W. L. Keene Award for Oratory was established by Eastern in 1964. The award is given to the woman student who excels in oratory. The award is comparable to the Weaver Oratorical Award for men. Any woman student at Eastern may enter the oratorical contest. The award was named in honor of W. L. Keene, professor of English at Eastern.

The Roy B. Clark Award is made possible by the will of the late Roy B. Clark, who was a teacher of English and head of the English department for many years. Dr. Clark left a $1,000 bequest to the college. The income from this money is to be awarded annually to the student who writes the best prose fiction published in *Belles Lettres*. The recipient will be selected annually by a faculty committee.

The Anna D. Gill Award is a fund established in memory of Miss Anna D. Gill, long-time faculty member of the Commerce Department. The income from this fund will be awarded annually to the outstanding senior commerce student.

A Student Service Award is presented annually by members of the Young Men's and Young Women's Christian Association to that member of the graduating class who, during his or her four years at Eastern, has given the greatest measure of service to fellow students.

The Yeager, Ford & Warren Award is for the purpose of stimulating an interest in the study of accounting and related subjects and encouraging the entrance of young men in the field of professional accounting. The $100.00 award is given at the end of the junior year to the student selected by the Department of Business as most likely to succeed in the practice of public accounting.

PLACEMENT OFFICE

The Placement Office is maintained by the College to assist students and alumni in obtaining positions in schools, businesses and industry. Each year, Superintendents, Principals, and other public school officials come to this office to secure qualified individuals to fill their vacancies. No charge is made for this service. Graduates of Eastern may leave pertinent information and records of recommendations in the office until such time as they will need it as a reference.

Department heads, professors, and citizens furnish great amounts of data which are filed in the Placement Office.

Work began this spring on the complete reconstruction of the John Grant Crabbe Library. The new facility, to accommodate an expected enrollment of 9,000 by 1970, will contain 147,780 square feet of floor space and will be fully air-conditioned. One-third of the total cost of the $3,330,000 project will be paid from federal funds.

THE ALUMNI ASSOCIATION

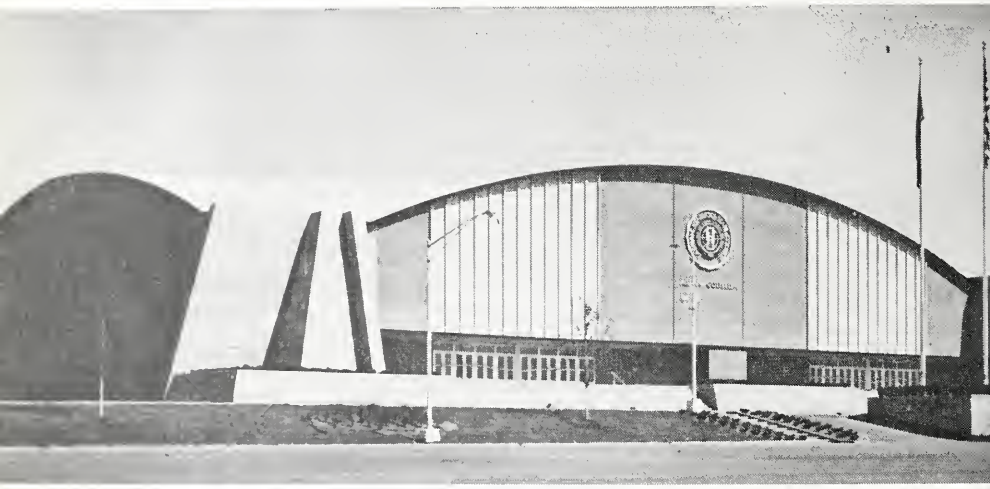
The Alumni Association of Eastern has as its purpose to promote fellowship among the graduates and to stimulate mutual interest and concern between the College and the Alumni. Eastern now has nearly 12,000 graduates. Many of these men and women hold more than one degree from the College. All of them are eligible for membership in the Eastern Alumni Association, "with all the rights and privileges appertaining thereto." All former students who have as much as a semester's work at Eastern, former faculty and staff members, are eligible for associate membership. The Alumni Association encourages all alumni to make an annual gift to the Alumni Fund each year. The minimum gift is $3.00, which serves as the "dues" for membership in the Association. This is used by the Association's Alumni Office to help defray operating expenses. The remainder of any contribution will be used for the specific purpose designated by the contributor. Annual active membership is obtained by making an annual contribution of at least $3.00, or $5.00 for a joint membership (husband and wife). Life memberships are $75.00 for single and $100.00 for joint memberships.

The Alumni Association sponsors Homecoming in the fall, K. E. A. breakfast in the spring and Alumni Day at commencement time. The latter features an Alumni Dinner honoring the 50 year and the 25 year classes and the presentation of the Outstanding Alumnus Award. In addition, active Alumni Clubs at Louisville, Greater Cincinnati, Ashland-Huntington-Ironton area, Pulaski County, Floyd County, Pike County, Perry County, Harlan County, Breathitt County, Fayette County, McCreary County, Dayton, Ohio, and Washington, D. C., have numerous meetings throughout the year open to all alumni and former students in the area. Many more Eastern Alumni Clubs are expected to be installed during the 1965-66 school year.

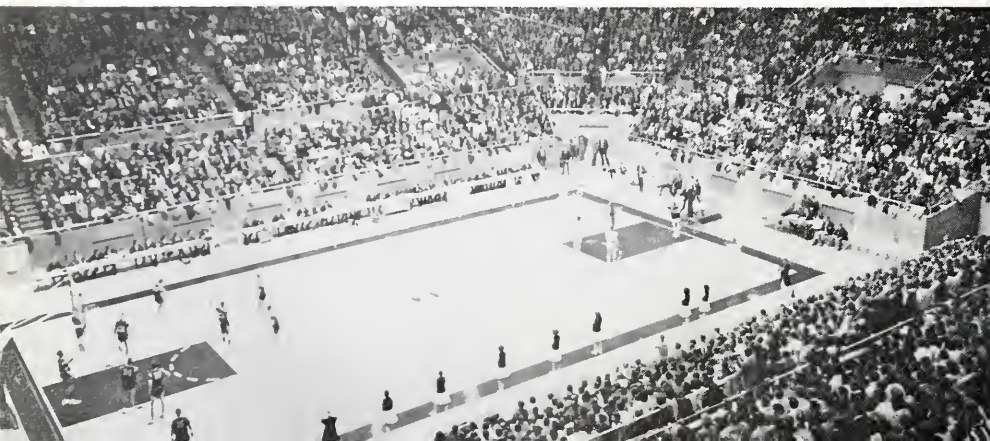
The Eastern Alumni Association is a member of the American Alumni Council and the Joint Alumni Council of Kentucky, an organization made up of the alumni of the six state-supported institutions: Eastern, Kentucky State, Morehead, Murray, Western and the University of Kentucky.

The Eastern Alcmnus, official magazine of the Alumni Association, is published each fall and spring by the Association for its members. Subscription is included in the membership dues.

The Alumni Office is conveniently located in the Administration Building where alumni and students may get bulletins and information. This is a good place for former students to find the addresses of their colleagues. Graduates, former students and faculty members are always welcome at the Alumni Office.



$3 million Alumni Coliseum, named for Eastern's more than 13,000 graduates, houses the Departments of Health, Physical Education, and Recreation, Military Science, and is the home of the 1965 Ohio Valley Conference Champions. The multi-featured facility seats 6,000 for basketball games and 7,500 for other events.



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Part

3

ADMISSION TO THE COLLEGE

I. **Methods of Admission.**—Candidates for admission to Eastern may be approved in any of the following ways:

1. **High School Graduation.**
   A. Students who graduate from an accredited high school in Kentucky may be admitted to the freshman class on the basis of an official transcript and a recommendation from the principal. The distribution of credits should include two majors and a minor. A minimum of three units is required for a major and two units is a minor. One major must be in English. Not more than four units will be accepted in vocational courses.
2. **By Special Approval.**
   A. Students who have one unit less than the number required for high school graduation, with superior grades, may be admitted provided the high school principal recommends that the student is qualified to do college work.
   B. Veterans who have a minimum of twelve units of high school work and have successfully passed the G. E. D. tests may be admitted provided their test at Eastern shows that they rank as high as the average freshman entering college.
   C. Persons over 21 years of age who wish to pursue courses as special students without reference to graduation may be granted the privilege if they have adequate preparation for the courses desired.
3. **By Advanced Standing.**
   A. Students who have attended other colleges are admitted to the College upon presentation and approval of credits from accredited institutions. Applicants transferring from other colleges and universities should present their applications at least ten days prior to the day of registration for the semester or summer term in which they plan to attend so that proper evaluation and acceptance can be made.
   B. A maximum of 67 semester hours of credit will be accepted from accredited junior colleges.

II. **Application for Admission.**—Applications for Admission to the Eastern Kentucky State College cannot be unconditionally approved until transcripts of credits are filed in the Office of the Registrar. As soon as possible after an Application for Admission and a Transcript of Credits are received, the candidate will be notified whether or not he is accepted.

It is the responsibility of the applicant to have the following items sent to the Registrar prior to the opening date of a term:

1. An application for admission, properly filled out by the applicant, should be made upon a regulation blank furnished by the Registrar.

2. A transcript of the secondary school credits, issued after graduation, should be mailed directly by the principal to the Registrar.
3. An official transcript of any college credits and a statement of honorable dismissal, regardless of whether or not the student received credit for the work, should be mailed directly to: The Registrar, Eastern Kentucky State College, Richmond, Kentucky.

STUDENT PROGRAMS AND REGULATIONS

Eastern Kentucky State College operates on the semester plan. The regular academic year is divided into two semesters of eighteen weeks each. The summer term, which is an integral part of the program, is eight weeks in length.

Classification of Students.—Students shall be classified as indicated below upon the completion of the respective number of hours, provided that the student has removed all entrance conditions:

Freshman—Entrance requirements
Sophomore—30 semester hours
Junior—60 semester hours
Senior—90 semester hours
Graduate—Baccalaureate degree

How Courses Are Numbered.—Courses are numbered according to the following plan:

Courses numbered 100 to 199 are primarily for freshmen.
Courses numbered 200 to 299 are primarily for sophomores.
Courses numbered 300 to 399 are primarily for juniors.
Courses numbered 400 to 499 are primarily for seniors.
Courses numbered 500 to 599 are for graduate students.

Grading System.—Grades are indicated by letters, to each of which is given a certain value in "grade points." The following is the interpretation placed upon the grading system:

Grade	Meaning	Grade Points Per Semester Hour
A	Excellent	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
I	Incomplete	

The grades, A, B, C, D, and F cannot be changed by the instructor. A grade of "D" gives credit toward a certificate or a degree if with such credits the student's standing is 2 or more. A grade of "I" shall be assigned only upon condition the student has been unable to complete the course on time because of unavoidable

conditions. A grade of "I" must be made complete within one month after the student re-enters the Institution. All grades of "I" automatically become "F" if not completed at the end of a year.

A student's point average is obtained by dividing the total number of points earned by the total number of semester hours undertaken. Courses in which the marks are Cr., W, or WP are recorded but are not figured in computing the point average. In order for a student to fulfill the requirements for a certificate or a degree he must offer a number of "grade points" at least twice as great as the number of semester hours attempted.

Student Load.—The normal load for a semester for undergraduate students is eighteen semester hours. The minimum load to be classed as a full-time student is twelve semester hours. Students who have established superior records in the institution may be permitted to enroll for additional hours provided the approval of the Dean of Instruction is secured at the time of registration. The maximum load, however, shall not exceed twenty-one hours.

Correspondence work may be taken while in residence only on condition that it is counted as a part of the load. The combined load of correspondence and residence work cannot exceed the amount the student may take in residence. This regulation applies regardless of the institution with which the student does correspondence work.

Scholarship.—Any freshman or sophomore student failing to make an average standing of 1.6 for the semester will be placed on probation for the next semester for which he enrolls. If during the probation period he fails to make an average standing of at least 1.6, he may be dropped from the college. A student who is dropped may be considered for readmission after a lapse of one semester by applying in writing to the Dean of Admissions for consideration by the Admissions Committee.

Upon completion of 60 or more semester hours of work with an average grade of "C", the student may register as a junior. Any junior or senior student failing to maintain an average standing of 2.00 will be placed on probation for the next semester for which he enrolls. If during the probation period he fails to secure a cumulative average standing of 2.00, he may be dropped from the College.

Class Schedule Changes.—Necessary changes in courses must be made within ten days after registration for the regular semester or five days in the summer term, and must be approved by the Dean of Instruction. Approval to drop a course without a grade cannot be given after thirty calendar days (15 calendar days for the summer session) following registration, unless justified by conditions beyond the student's control, such as, serious personal illness, obligations relative to military service, or serious financial

or family obligation necessitating withdrawal from college. It is to be understood that any course dropped unofficially will result in a failing grade.

One month prior to the close of a semester no dropping of classes will be permitted, either with or without standing.

Late Registration.—No one will be permitted to register for regular day classes after the second week of a semester or after the first week of a summer term. Special consideration for registration beyond these periods of time may be requested from the Admissions Committee.

Withdrawal from the College.—Students who find it necessary to leave the College under any conditions must visit the Office of the Dean of Students and secure an official Withdrawal Card. This card must be carried by the student to several campus offices, where records must be cleared. Unless the student follows this procedure, the permanent records in the Registrar's Office are incomplete. Therefore, students receive grades of "F" for the semester's work and will not be eligible for readmission. Students failing to complete a Withdrawal Card within fifteen days will receive an unofficial withdrawal.

Official Schedule Changes.—The College reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

General Requirements for the Baccalaureate Degrees.—The degree of Bachelor of Arts or Bachelor of Science is conferred upon those students who have completed an approved four-year curriculum. The minimum amount of credit required for the bachelor's degree is one hundred and twenty-eight semester hours of college credit. Not more than thirty-two semester hours of the work required for a degree may be earned by extension and/or correspondence. A candidate for a degree must have been in residence a minimum of 36 weeks and must have earned a minimum of 32 hours while in residence. At least 30 hours of the last 36 required for a degree must be earned in residence at Eastern. This regulation became effective September 1, 1959, and will apply to all work earned after September 1, 1959.

The curriculum which the student expects to follow for the completion of the requirements for the bachelor's degree must be filed in the office of the Dean of Instruction not later than the end of the junior year. The curriculum must be approved by the Dean of Instruction and by the major professor. A student's planned curriculum cannot be changed after fifteen days following the semester in which a student makes application for graduation.

In order to be eligible to graduate a student should have a good proportion of his work in the upper division of the college. At least

43 semester hours of his work must be in courses numbered in the three and four hundreds.

Candidacy for Graduation.—A student planning to graduate in June should file application for a degree before the end of the first semester. Students who are planning to graduate in August should file application not later than the beginning of the second semester. Applications should be filed in the Registrar's Office. Fees for graduation are to be paid at the Business Office and receipts presented to the Registrar's Office.

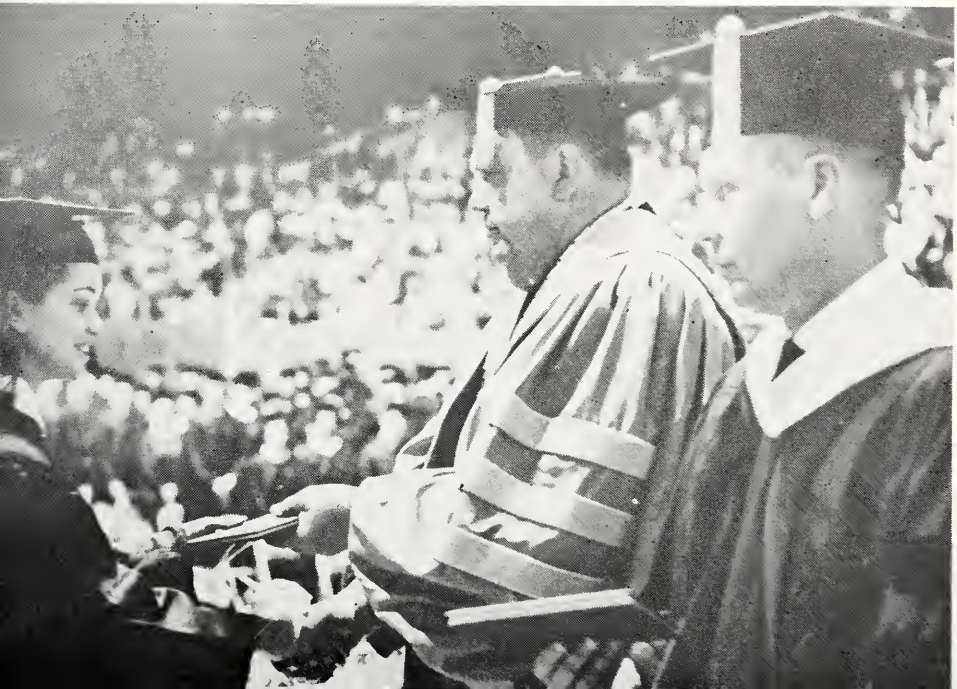
Commencement.—Commencements are held at the close of the spring semester and at the end of the summer session. Students who are candidates for degrees are required to participate in the commencement exercises unless excused by the President. A student who completes the requirements for a degree during the fall semester will receive the degree at the following spring commencement.

Commencement Honors.—Students are graduated "With High Distinction" who attain a standing of 3.6 or higher for at least three years of residence work.

Students are graduated "With Distinction" who attain a standing of 3.4 up to 3.6 for at least three years of residence work.

A student who does only two years at Eastern may receive the appropriate commencement honors if he attains a standing of .2 greater than the above.

Climax to four years' work comes at commencement exercises.



CURRICULA

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CURRICULA

GENERAL EDUCATION REQUIREMENTS

AREA I. Communications and Humanities—18 Semester Hours

A. The following twelve hours are required:
   1. English 101—3 semester hours
   2. English 102—3 semester hours
   3. English 211—3 semester hours
   4. English 212—3 semester hours

B. The student will select six hours from the following:
   1. Art 200—3 semester hours
   2. Art 390—3 semester hours
   3. Art 391—3 semester hours
   4. Foreign Language—6 semester hours
   5. History 498—3 semester hours
   6. History 499—3 semester hours
   7. Music 271—3 semester hours
   8. Music 371—3 semester hours
   9. Music 372—3 semester hours

AREA II. *Mathematics and Natural Science—12 Semester Hours

A. Select twelve hours from the following courses:
   1. Biology: Science 111, 112; Biology 131, 132, 141, 142, 219, 433
   2. Chemistry: Science 110; Chemistry 111, 112
   3. Geology: Geology 108, 200
   4. Mathematics: Mathematics 107, 108, 113, 321
   5. Physics: Science 109; Physics 131, 132, 201, 202
   6. Nonspecialized Science: Science 310

*A student must have 3 hours in biological science and 3 hours in physical science. At least 6 of the 12 hours must afford the student laboratory experience.

AREA III. Social Science—12 Semester Hours

1. Social Science 100—3 semester hours
2. Social Science 101—3 semester hours
3. History 246—3 semester hours
4. History 247—3 semester hours

AREA IV. Health and Physical Education—5 Semester Hours

1. Physical Education 115—1 semester hour
2. Physical Education 116—1 semester hour
3. Health 201—3 semester hours

AREA V. Orientation 100 and 101, College Orientation—2 Semester Hours

DEGREES

The *Bachelor of Arts Degree* is conferred upon students who major in anthropology, art, English, French, geography, geography and geology, German, history, Latin, music, political science, Russian, social science, sociology, Spanish, speech, and speech and drama.

The *Bachelor of Science Degree* is conferred upon students who major in biology, business, chemistry, earth science, economics, elementary education, health and physical education, home economics, industrial arts, mathematics, physics, and science.

The *Master of Arts Degree in Education* is conferred upon students who complete the graduate program designed to meet the needs of teachers, supervisors, guidance counselors, educational administrators, etc.

TEACHER EDUCATION CURRICULA

The curricula offered by the College have been planned and developed to meet the needs of students who desire to become teachers, principals, supervisors, superintendents, attendance officers in the public schools, and guidance counselors. Curricula are offered for the preparation of elementary teachers; for teachers of the special subjects of art, business, health and physical education, industrial arts, music, and vocational home economics; and for the preparation of high school teachers in fields of biology, chemistry, earth science, English, French, geography, geography and geology, German, history, Latin, mathematics, physics, political science, Russian, social science, sociology, Spanish, speech, and speech and drama. These curricula lead to the baccalaureate degrees and the Master of Arts degree with right of certification.

PROVISIONAL ELEMENTARY CERTIFICATE

The Provisional Elementary Certificate valid for ten years shall be issued to a person who completes a baccalaureate degree and meets the requirements for teaching in the elementary schools. The Provisional Elementary Certificate is valid on a continuing basis provided the certificate is registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on evidence of three years of teaching experience or twelve semester hours of additional graduate work.

The curriculum for the preparation of elementary teachers is given in the material under Education found subsequently in this catalog.

STANDARD ELEMENTARY CERTIFICATE

The Standard Elementary Certificate valid for ten years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of elementary teachers as prescribed by the Council on Public Higher Education, and who, in addition thereto, completes the requirements for a Master's degree in a standard graduate school, as prescribed.

The curriculum, which is to be approved by the State Board of Education, leading to the Standard Elementary Certificate shall be based upon the following:

a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.

b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.

c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.

d. At least 12 semester hours of the total hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the fields of study required in general education and/or in subject matter courses used in partial fulfillment of the four-year elementary curriculum for elementary certification.

The Standard Elementary Certificate may be extended for life upon three years of successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on basis of four semester hours of graduate work for each of the three years the teacher fails to teach.

PROVISIONAL HIGH SCHOOL CERTIFICATE

The Provisional High School Certificate valid for ten years shall be issued to a person who completes a baccalaureate degree for the training of high school teachers. The Provisional High School Certificate is valid on a continuing basis provided that the certificate is registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on evidence of three years of teaching experience or 12 semester hours of additional graduate work.

Courses of instruction leading to the Provisional High School Certificate are to be found under the material of the various academic departments.

STANDARD HIGH SCHOOL CERTIFICATE

The Standard High School Certificate valid for ten years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of high school teachers as prescribed by the Council on Public Higher Education, and who, in addition thereto, completes the requirements for a Master's degree in a standard graduate school as prescribed.

The curriculum leading to the Standard Secondary Certificate shall be based upon the following:

a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.

b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.

c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.

d. At least 12 of the 30 semester hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the general education courses and from the list of subjects in which majors and/or minors may be completed on the undergraduate level and used in partial fulfillment of requirements for the bachelor's degree and the Provisional High School Certificate.

The Standard High School Certificate may be extended for life upon three years' successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be registered at the end of each ten-year period in the Division of Teacher Education and Certification of the State Department of Education on basis of four semester hours of graduate work for each of the three years the teacher fails to teach.

CURRICULA FOR SCHOOL LEADERS

Eastern offers curricula leading to the Provisional Certificate for School Leaders (principals, supervisors). For each of the Provisional Certificates the applicant must have completed a curriculum leading to the Master's degree. Three years of successful teaching experience or the equivalent are also required.

CURRICULUM FOR GUIDANCE COUNSELORS

Eastern offers a curriculum leading to the Provisional Certificate for Guidance Counselor. The Master's degree is required for this certificate. The Provisional Certificate for Guidance Counselor shall be valid for a period of ten years and renewable each ten-year period on the basis of three years of experience as a guidance counselor. The applicant must have had three years of successful teaching experience or two years of teaching experience and one year of employment in fields other than teaching.

The College also offers a curriculum leading to the Standard Certificate for Guidance Counselor. This certificate is based on 30 additional hours of graduate work beyond the Master's degree. The Standard Certificate is a "continuing" certificate.

DEGREES WITHOUT RIGHT OF CERTIFICATION

(Non-professional)

It is possible for a student to secure a degree without the right of teaching in most of Eastern's academic departments. The requirements for such degrees are fully set forth in the description of the various academic departments found elsewhere in this catalog.

PRE-PROFESSIONAL CURRICULA

CURRICULUM PREPARATORY FOR MEDICINE AND DENTISTRY

Eastern offers a preparatory course for the study of medicine which, with modifications to meet special variations in requirements, complies with the general entrance requirements of medical schools. The curriculum outlined below also includes institutional requirements for graduation with a Bachelor of Science degree.

It is recommended that a student complete the four-year course of study at Eastern before transferring to a medical school. This gives the student obvious advantages in medical school and in later work. Furthermore, some medical schools require a four-year course for admission.

Students may elect to complete the outlined three years at Eastern and then use the first year of work from a Class A medical

school to complete the requirements for the Bachelor of Science degree. Combination courses are subject to approval by Eastern and by the particular medical school.

Students who desire may take only two years for a premedical course. Many medical schools will not accept students with only two years of premedical training and Eastern does not recommend such a limited course.

PRE-MEDICAL CURRICULUM

First Year

First Semester	Hours	Second Semester	Hours
Biology 141	4	Biology 142	4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	18		19

Second Year

Biology 342	5	Biology 347	4
Chemistry 211	5	Chemistry 212	5
English 211	3	English 212	3
Mathematics 107	3	Mathematics 113	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
	18		17

Third Year

Biology 445	2	Chemistry 312	5
Chemistry 310	5	Foreign Language	3
Foreign Language	3	Physics 132	5
Elective in Humanities	3	Psychology 211	3
Physics 131	5		
	18		16

Fourth Year

Biology 446	3	Biology 303	4
Chemistry 413	5	Elective in Humanities	3
Health 201	3	Sociology 231	3
Elective in Social Science	3	Elective	6
Elective	2		
	16		16

PRE-DENTAL CURRICULUM

A student who is planning to enter dental school should follow the curriculum outlined for pre-medical work.

MEDICAL TECHNOLOGY

Students who are interested in becoming medical technicians may secure many of the required college courses at Eastern. The requirements for this type of work vary and the student should elect courses to meet particular requirements.

MEDICAL TECHNOLOGY CURRICULUM

First Year

First Semester	Hours	Second Semester	Hours
Biology 141	4	Biology 142	4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	18		19

Second Year

Biology 342	5	Biology 347	4
Chemistry 211	5	Business 151	2
English 211	3	Chemistry 212	5
Mathematics 107	3	Health 202	2
Military Science 201 (Men) or Elective (Women)	2	Mathematics 113	3
		Military Science 202 (Men) or Elective (Women)	2
	18		18

Third Year

Biology 445	2	Biology 303	4
Chemistry 310	5	Biology 446	3
English 212	3	Chemistry 430	3
Physics 131	5	Economics 230	3
Elective in Social Science	3	Physics 132	5
	18		18

Fourth Year

Work to be taken in an accredited hospital.

PRE-ENGINEERING CURRICULUM

A student may take one or two years of fundamental work at Eastern and then transfer to an engineering college without appreciable loss of credits if he chooses his courses wisely. The pre-professional requirements of a particular college of engineering should be chosen from Mathematics, Chemistry, Physics, and other basic subjects. Every Pre-Engineering student will receive help, upon request, from an advisor.

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Mathematics 113	3	Mathematics 232	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Orientation 100	1	Physics 107	1
		Orientation 101	1
	17		18

Second Year

Geography 221	3	Economics 230	3
Industrial Arts 191	3	Industrial Arts 292	3
Mathematics 251	5	Mathematics 352	3
Military Science 201	2	Military Science 202	2
Physics 201	6	Physics 202	6
	19		17

SOCIAL WORK

Students who plan to do graduate work in social work or who plan to enter a field of social work with public or private agencies should major in Sociology, taking courses on social work as their Sociology electives, and concentrate on Economics, Political Science, and Psychology in their minors. Opportunities for work are increasing in the areas of child welfare, juvenile institutions, penal institutions, State social agencies, Federal services, the American Red Cross, and in similar specialties.

PRE-VETERINARY MEDICINE

Since 1950, Kentucky students have had the opportunity of entering veterinary medical training at Auburn University, Auburn, Alabama, or at Tuskegee Institute, Tuskegee, Alabama. The State of Kentucky has made this possible through its participation in the Southern Regional Education program.

The State pays $1,500 per student per year through the Southern Regional Education Board to the institutions. Each year Auburn University holds twelve places and Tuskegee Institute holds two places for entering students from Kentucky. These students must meet admission requirements of the schools. If admitted, Kentucky students have the same status as Alabama students. They do not pay out-of-state tuition.

The minimum education requirement for admission to the School of Veterinary Medicine, Auburn University, is the satisfactory completion of two years of study in an approved accredited college or university. A total of 60 semester hours of college work must be completed with a grade point average of at least 2.75. In addition to the above, applicants are required to meet the military and physical training requirements in effect at the institution attended.

The two years of college work must include:

	Sem. Hrs.		Sem. Hrs.
Freshman English	6	Botany	3
American History	3	*Medical Vocabulary	3
College Algebra	3	General Poultry Husbandry	3
General Chemistry	9	Animal Nutrition	4
General Zoology	8	Farm Livestock Production	3
Trigonometry	3	Military Science	8
Physics	10	Physical Education	2
Organic Chemistry	10		

Applicants who have completed the requirements for a B. S. degree in Agriculture with a scholastic average of at least 2.75 are qualified for admission.

In the selection of students for admission to the School of Veterinary Medicine the Committee on Admissions gives due consideration to the applicant's background, adaptability to the profession, age, scholastic record, and residence. Personal interviews and aptitude tests may be required.

PRE-LAW CURRICULUM

No fixed, comprehensive pre-law curriculum is usually prescribed in law schools. However, prospective law students should keep in mind that a broad, basic and liberal education will equip one to study law and also prepare him for a vital role in the community once he has acquired his professional training. Thus he should pursue a degree program in pre-law in which he will learn to think clearly, will form sound study habits, and will have an opportunity to master the methodology and knowledge of a particular field under the guidance of good instructors. Courses in accounting, economics, English, history, Latin or a modern foreign language, mathematics, the natural sciences, philosophy, political science, psychology, sociology and speech lend themselves to the breadth of background needed by a law student and a lawyer.

The importance of a sound background in use of the English language cannot be stressed too greatly. A fundamental knowledge of grammar, a good vocabulary, an ability to read rapidly with understanding, an ability to express one's thoughts in a clear and organized fashion, are all absolutely essential to success in the study of law. Any pre-law student who is deficient in English should take immediate steps to correct the situation by taking additional English courses, by seeking remedial help and by self-study. Otherwise he may be seriously handicapped in the study of law and may even jeopardize his admission to law school.

A pre-law student may either complete the degree requirements before applying for admission to a law college or may apply for admission to a law college upon the completion of three academic years of undergraduate work. Eastern has arrangements with a number of law colleges whereby the freshman year in the law college can be transferred to Eastern and applied on the bachelor's degree. By this plan a student may earn both the baccalaureate and law degrees in six academic years. He must meet the following requirements to receive a bachelor's degree from Eastern:

1. He must gain at least 100 semester hours at Eastern, with a standing of 2.3 or more, before transferring to a law school.
2. He must have met the general education course requirements.
3. He must have completed at least 21 semester hours in a major and 15 semester hours in a related minor.
4. He must have been officially registered at this institution at least one full year, thirty-six weeks, immediately preceding the completion of his requirements in this institution, and must have completed at least 36 semester hours in residence at this institution.
5. He must spend at least one academic year in a College of Law approved by the Association of American Law Schools.

6. He must secure sufficient hours in his law courses to bring his total up to 128 semester hours and must secure a standing of at least 2.0 or its equivalent in his law courses.

Pre-law students are advised to select an advisor from one of the following departments: Business; English and Foreign Languages; History, Anthropology and Sociology; Political Science.

PRE-FORESTRY CURRICULUM

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first two years of their work at Eastern Kentucky State College and complete their training in two years and one summer at North Carolina State College in Raleigh.

First Year

First Semester	Hours	Second Semester	Hours
Biology 131	3	Biology 132	3
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101	2	Military Science 102	2
Physical Education 115	1	Physical Education 116	1
Orientation 100	1	Orientation 101	1
	17		18

Second Year

Biology 141	4	Agriculture 215	4
Biology 336	2	Biology 335	2
Economics 230	3	History 247	3
History 246	3	Military Science 202	2
Military Science 201	2	Physics 132	5
Physics 131	5	Sociology 231	3
	19		19

OTHER PRE-PROFESSIONAL CURRICULA

The College affords courses for students who plan to do specialized work in nursing, library science, theology, and in other professional fields.

In addition to standard four-year pre-professional curricula, Eastern may approve specially arranged combined curricula. In these curricula, the student completes three years as outlined at Eastern to meet basic requirements and then transfers a year of successful work from a Grade A professional school in order to secure a B. S. or A. B. degree from Eastern Kentucky State College. This plan may shorten by one year the time needed for obtaining both a baccalaureate and a professional degree.

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* Six semester hours of Modern Language may be substituted for Medical Vocabulary, or this course may be taken by correspondence by applying directly to the Director of Extension Teaching, Auburn, Alabama.

SUPERVISED STUDENT TEACHING

Student Teaching is done in the campus laboratory school or in affiliated public schools. Students wanting to do Student Teaching must file an application twelve weeks prior to the term in which they are to do their Student Teaching.

Admission to Student Teaching

A student of senior standing may enroll in Student Teaching if he has satisfied the following requirements:

1. Has one semester of residence at Eastern and has been admitted to the teacher education program.
2. Has completed all prerequisites in professional education and his major teaching field. Elementary Education is classified as a major.
3. Has the recommendation of his major professors and minor professors.
4. Has a standing of 2.25 in
   a. Entire college program at Eastern
   b. Professional education courses
   c. Area of concentration or in his majors and minors.
5. Must meet the generally accepted standards of a professional person relative to health, art of communication, personality, and other characteristics of a good teacher.
6. The application for Student Teaching must be on file at least 12 weeks prior to the term in which Student Teaching is desired.
7. Must have on file a physical examination report.

Students taking Student Teaching are expected to follow the calendar of the school in which they are doing Student Teaching.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

Those who plan to work toward a teaching certificate, either secondary or elementary, must enroll in Education 202, Professional Orientation. This enrollment should be in the Sophomore year. During this course the application for the Teacher Education Program will be accomplished. Transfer students who have had a similar course prior to entrance to Eastern should enroll in Education 300, Issues and Trends in American Education. This must be done during the first semester of residence. The requirements for admission to the Teacher Education Program are (a) one semester of residence at Eastern, (b) 2.25 grade-point average in all his college work at Eastern, (c) satisfactory recommendations from four faculty members, one of which must be the instructor in Education 202, or Education 300.

When a student has been admitted to the Teacher Education Program, and not until then, he may enroll in the professional education sequence. No student will be enrolled in Education 315, Human Development and Psychology, or subsequent Education courses, without an admission card showing he has been admitted to the Teacher Education Program. If, after admission to the Teacher Education Program, a student is placed on either academic or social probation, his application will be reviewed.

THE LABORATORY SCHOOL

The campus laboratory school enrolls approximately 530 students with a staff of thirty-one full-time faculty members. It is located in the new Donovan Building. The finest and most recent innovations of school architecture have been incorporated in this splendid building.

Pupils who attend the campus laboratory school come from the city and county in the surrounding community. The number of pupils for each grade is limited. Listed below are the tuition fees:

Kindergarten .....$72.00 per semester
Grades 1-12 .....$20.00 per semester

THE EXTENSION DIVISION

EXTENSION CLASS PROGRAM

Purposes and Objectives

Eastern Kentucky State College strongly holds to the philosophy that there should be a close relationship with the homes and the schools of the state to the end that any citizen may feel free to call upon the College for any assistance which the institution may be able to render. The off-campus class program of Eastern is designed to serve students who are unable to enroll in residence or who find it more helpful to work in local groups on certain common problems. More specifically, off-campus class programs are designed to accomplish one or more of the following purposes:

1. To provide greater opportunity for teachers and prospective teachers to obtain credit in college-level courses.
2. To provide greater opportunities for those who want to increase their knowledge, while regularly employed, to obtain credit in college-level courses or to improve their efficiency and skills.
3. To assist communities to make effective use of the resources of the college in their efforts to improve their educational program of the schools.
4. To assist in acquainting the faculty of the various departments with the educational programs and needs facing the communities served by the college.

Off-Campus Courses

The college commits itself to provide credit and non-credit courses needed for the development of teachers now on the job by:

1. Offering credit and non-credit courses when requested by the local school authorities and provided the demand is sufficient to justify the college to offer such course or courses.
2. Cooperating with local school systems in organizing and conducting off-campus courses as needed.
3. Providing non-credit courses by the members of the faculty and staff to the extent that the resources of the college will permit.

Course and Credit Limitations

Off-campus credit courses offered by Eastern are of various types. To a large extent, the nature of off-campus courses is determined by the needs of the local community. All courses offered are approved by the Dean of Academic Affairs and the Department Head. Courses requiring laboratories or extended library service are not offered off-campus.

Effective September 1, 1965, a teacher employed on a full-time basis shall not be allowed to receive credit through off-campus courses and/or correspondence for more than a maximum of four semester hours each semester or eight semester hours during the regular school year of nine months.

Undergraduate students may apply a maximum of 32 semester hours by Extension and/or correspondence toward a degree or certification.

Graduate students may apply a maximum of six semester hours toward an M.A. degree or certification, and may also earn six hours beyond the M.A. degree.

Credit courses of short duration shall be conducted only during the summer term or intersession and shall be for a minimum of three weeks for a three-hour course meeting a minimum of three clock-hours five days per week.

Admission Requirements

Students will be admitted to off-campus credit courses who satisfy all prerequisites for these courses in exactly the same manner as is required of residence students.

Certain courses numbered 300-499 may be opened to both graduates and undergraduates, subject to approval of their advisors or Department Heads.

Credit for Graduate courses is limited to graduate students only.

Students may be permitted to audit an off-campus course without credit by paying the minimum fee required.

A minimum of 15 weekly classroom sessions for a three-semester hour course shall be required with a minimum time for each classroom session of 180 minutes. For a two-hour course there must be at least 10 weekly classroom sessions of 180 minutes each. (A classroom session is interpreted to mean where instructor and students are meeting in face-to-face instruction. Organizational meetings by the Director and students are not to be considered.)

The minimum charge for a semester hour for under-graduate work by extension shall be $10.00, and the minimum charge for graduate work shall be $12.00.

How to Proceed

Students interested in an off-campus class being offered in their locality may do one or more of the following things:

1. Write or call the Director of Extension, Eastern Kentucky State College, Richmond, Kentucky, 40476. Telephone: Code Number 606—623-7155 or 7156.
2. Contact the office of your local Superintendent of Schools and make inquiry as to the local need for such a course.
3. Make a survey among your friends and associates as to the need and demand for an off-campus class.
4. Consult with your Supervisor and Principal as to whether or not the course or courses in which you are interested will be helpful in improving the educational standards of the local school program.

CORRESPONDENCE STUDY PROGRAM

Eastern Kentucky State College, through its Department of Extension, offers a number of regular college and high school correspondence courses as a means of study open to anyone of maturity. While a correspondence course is not intended as a substitute for residence study, it can be made to serve effectively in the place of a course offered in class. For this reason the courses are offered for the purpose of meeting the needs of students out of school. They are especially helpful to the following groups:

1. Teachers who wish to obtain college credit which will count toward their certificates.

2. Those who wish to begin or continue work in college subjects for the purpose of securing a degree.

3. Those who want to increase their knowledge without regard to their previous training.

4. High school graduates who feel the need for further education in general or special lines but who do not wish to secure a degree.

5. High school non-graduates who wish to qualify for a high school diploma or who wish to meet college entrance requirements.

Location

The Correspondence and Extension Office is located on the top floor of the Coates Administration Building, room 236, on the main campus of Eastern Kentucky State College. The telephone number is Area Code 606, 623-7155 or 7156.

Credit

Correspondence Study offers both college and high school courses for credit. To obtain credit in a course, the student is required to do the work as outlined in the syllabus and write, under supervision, the final examination. In general, the final grade will be determined on the basis of the final examination and the grades earned on the assignments submitted.

Credit for college courses is on the semester basis; credit for high school courses is on the ½ unit basis. Students may, however, enroll for a course on a non-credit basis if credit is not desired. Final examinations are not required of students pursuing non-credit courses.

A high school student may apply correspondence credit toward graduation provided it meets with the approval of the local school system and the high school principal who is to receive the credit. A student enrolled in high school, or one who expects to use credit earned by correspondence toward high school graduation, must have the approval of his principal.

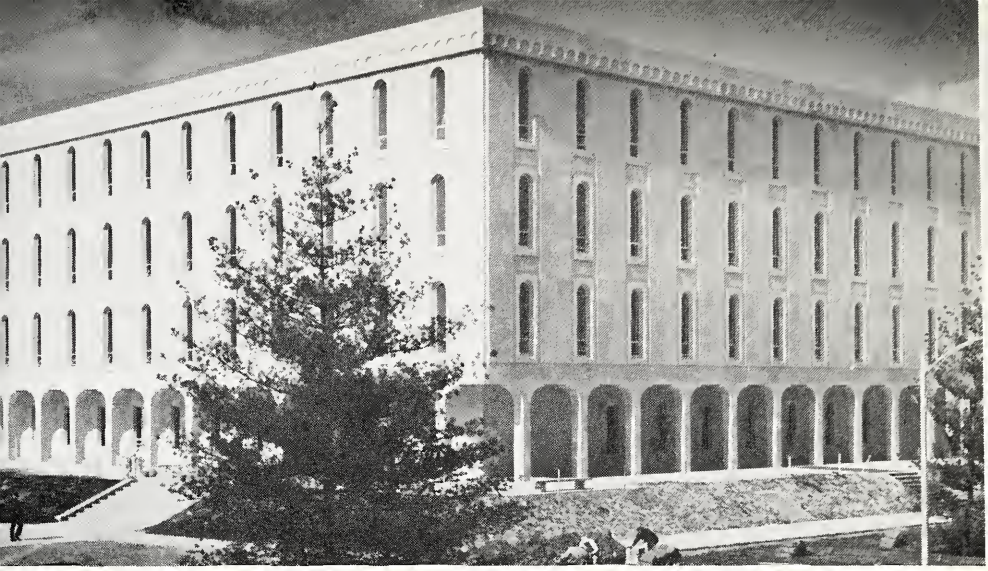
Graduate Credit

Credit toward the Master's Degree at Eastern Kentucky State College cannot be earned by correspondence study. Graduate students, however, may take correspondence courses and the credit earned can be applied toward overcoming undergraduate deficiencies and toward the major and/or minor fields.

Fees

A. Instruction fees, which do not include costs of textbooks and other reference materials, are governed by the following regulations:

1. All fees are payable in advance and are subject to change without advance notice to the student.
2. Instruction fees for college courses are based upon the number of semester hours of credit given for the course. The fee at present is $10.00 per semester hour for correspondence. For a two-semester hour course the fee is $20.00; for a three-semester hour course the fee is $30.00.
3. The instruction fee for high school courses is $20.00 for each one-half unit.



Handsome new Bert Combs Classroom Building houses the departments of English, business, political science, education, and the graduate school. The $2.9 million classroom building provides for the simultaneous teaching of 2,200 students.

Time Allowed

The beginning date for a correspondence course coincides with the date of enrollment. A student may enroll for a course any time during the calendar year. The course must be completed one year from the date of enrollment unless there are extenuating circumstances beyond the control of the individual student. In such case, the Extended Services Committee may grant reinstatement. If the course is cancelled, the student will have to re-enroll by paying the full instruction fee before completing the course.

The minimum time in which a correspondence course may be completed is as follows:

a. Five weeks for a three-semester hour course.
b. Ten weeks for two three-semester hour courses.
c. Four weeks for a two-semester hour course.
d. Eight weeks for two two-semester hour courses.
e. Nine weeks for one three-semester hour course and one two-semester hour course.
f. A minimum of four weeks is allowed for one-half unit high school course or eight weeks for two high school courses.

Students who wish to apply correspondence credit toward graduation, certification, etc., **must** arrange to complete the work at least two weeks before credit is needed. This is particularly necessary during the **summer months** and Christmas vacations when faculty members are often off the campus.

Regular resident students who enroll for correspondence work to complete during the summer must complete their course before enrolling for residence in the fall. No correspondence course can be completed by a resident student without written permission from the Dean. A course is considered completed on the date of the final examination.

THE GRADUATE SCHOOL

PURPOSE

The Graduate School presently offers work leading to the degree of Master of Arts in Education. This graduate program is planned to meet the needs of teachers in elementary and secondary schools and to provide graduate education for supervisors, principals, attendance officers, counselors, guidance personnel, etc.

Eastern has recently been authorized to grant the Master of Arts and the Master of Science degrees in Academic fields. Plans are presently under way to implement programs for these degrees, but details will not be available until a later date.

TYPES OF STUDENTS

Graduate courses are open to: (1) students who enter and become candidates for the degree of Master of Arts in Education; and (2) students who wish to broaden their education without reference to a graduate degree.

ADMISSION REQUIREMENTS

REQUIREMENTS FOR ADMISSION TO THE GRADUATE PROGRAM

1. A graduate of an accredited 4-year institution eligible to grant the Baccalaureate Degree.

2. An over-all undergraduate point standing of at least 2.4 (based on a 4.0). A standing of not less than 2.25 may be considered (with reduced load) provided the student's standing in his last year of undergraduate study was at least 2.5.

3. Complete personal and professional data, filed by the student with the Graduate School. A transcript of all college and secondary school credits must be filed with the Graduate School and with the Dean of Admissions.

4. A grade of no less than "C" in student teaching at the undergraduate level.

ADMISSION TO CANDIDACY FOR THE DEGREE OF MASTER OF ARTS IN EDUCATION

1. Completion of the verbal ability and the quantitative ability sections of the Graduate Record Aptitude Tests. The test must be taken during the first semester of course work. The cut-off point is 800 (scaled scores) and a student falling below this point must appeal through his advisory committee to the Graduate Council for consideration for his degree candidacy.

2. (a) A minimum of 15 semester hours of graduate course work must be taken after the test is successfully completed.

(b) A minimum of 6 semester hours of graduate course work with a standing of at least 3.0.

3. An interview with the Graduate Committee.

4. Approval by the Graduate Council upon the recommendation of the student's advisory committee. In making the recommendation, the advisory committee will take into consideration personality, character, academic proficiency, and any other factors which are deemed important for the particular curriculum in which the student is working.

5. Each graduate committee will apply additional criteria which have been developed by their committee for the selection of students in their own particular curriculum area. A copy of the criteria developed by each graduate committee shall be filed with the Graduate School.

6. A valid teaching certificate, based on four years of standard college preparation in the state in which it was issued.

After the student becomes a candidate for the degree of Master of Arts in Education, he will then be expected to meet all course requirements prescribed in his curriculum and to satisfy all residence and other degree requirements as prescribed by the institution. The Graduate Office will verify his eligibility for an oral examination and the granting of the degree in accordance with approved curriculum patterns on file with the Division of Teacher Education and Certification in Frankfort.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. A person may receive the degree of Master of Arts in Education when he has completed other requirements set out in these regulations and in addition thereto has completed a four-year curriculum for the education of elementary or secondary teachers as prescribed by the Council on Public Higher Education or holds a certificate based upon four years of standard college preparation and valid for teaching in the state in which it was issued.

2. The student shall have an average standing of 3.0 and no credit shall be granted for a grade below "C".

3. Graduate students may take upper division courses but at least 50 per cent of all course work must be in courses open to graduate students only.

4. Requirements for the degree of Master of Arts in Education may be satisfied by one of the following plans:

Plan I—With a Thesis

The residence requirements shall be 36 weeks. The minimum course credit shall be twenty-four semester hours.

Plan II—Without a Thesis

The residence requirements shall be 36 weeks. The minimum credit shall be 30 semester hours.

5. Every candidate for the degree of Master of Arts in Education shall present a minimum of 9 semester hours of graduate credit in professional education and must have had a minimum of 27 semester hours at the undergraduate level and/or graduate level.

The minimum time in which a student who does not have a minimum of 12 semester hours in education, upon being admitted to the graduate school, shall be 45 weeks to complete course requirements for the degree of Master of Arts in Education.

6. The remainder of the course work shall be determined by the institution in terms of the student's needs, provided that it shall be upper division and/or graduate courses.

7. The student shall pass a final examination on all fields presented toward fulfillment of requirements for the degree of Master of Arts in Education.

8. Teachers holding what would ordinarily be considered a full-time position shall not be permitted to receive graduate credit for more than 4 semester hours during any semester.

9. Residence credit for part-time study at the graduate level shall be 1½ weeks for each semester hour of credit and shall apply to students who carry less than a minimum full-time load.

10. One-half of the course requirements and one-half of the residence work shall be done as a full-time graduate student. In evaluating residence credits a summer term of 8 weeks with a minimum load of 6 semester hours of credit shall be regarded as 9 weeks in residence.

11. The average graduate student, unless special approval is secured from the Graduate Dean, should take a load ranging from 12 to 16 hours per semester with a maximum of 8 hours per summer term of 8 weeks.

12. Part-time graduate students with full-time positions are advised to take loads ranging from 2 to 4 hours per semester and are expected to meet the high standards prescribed for full-time students.

13. Twelve hours of graduate work earned on a part-time basis shall entitle the student to one semester of residence.

14. Those graduate students who plan to take the degree of Master of Arts in Education will be expected to take a comprehensive qualifying examination before they have proceeded very far with their graduate program. The results of this examination will be used as a basis for guidance.

15. The student should have a graduate committee appointed during the first semester or summer term that he is a student at Eastern. The chairman of his graduate committee will act as his advisor.

16. A student preparing for the secondary certificate must select a major field of interest in which he has at least a minor of eighteen hours. If he does not have a minor, he will be required to take work at the undergraduate level sufficient to make the minor.

17. The Master's degree shall not be granted to one who does not have at least thirty hours in his major field, including both graduate and undergraduate work.

18. A graduate student is expected to complete requirements for the degree no later than eight years after beginning course work. In cases of hardship the time limit may be extended to ten years with the approval of the Graduate Council.

SEMINAR REQUIREMENTS

Seminars or research courses are required of graduate students. Two types of seminar are provided: (1) for graduate students who prepare a Master's thesis and (2) for students who do not prepare a thesis.

THE THESIS

The thesis should show, among other things, the following characteristics: (a) ability of the candidate to work independently on an approved problem; (b) a reasonable familiarity with the literature of the field of specialization; (c) a practical working knowledge of research methods; and (d) conclusions justified by supporting data.

The thesis must conform to regulations approved by the Graduate Council for writing theses. Two typewritten copies of the thesis must be filed in the College Library at least one week before the degree is conferred.

EXAMINATIONS

Before the graduate student can become a candidate for the Master's degree he must take a preliminary or qualifying examination. This examination is given each semester and each summer term. At least one-half of the work required for the degree must be completed after the qualifying examination.

The graduate student shall, upon official notification, pass an oral and/or written examination on his major, his minor fields, and his thesis.

APPLICATION FOR DEGREE

A student planning to receive the Master's degree in June should file application before the end of the first semester. August candidates should file application not later than the beginning of the second semester. Applications should be filed in the office of the Dean of the Graduate School. Fees are to be paid at the Business Office and receipts presented in the office of the Dean of the Graduate School.

CURRICULA

The institution has worked out specific curricula for the following certificates: Standard Elementary Certificate, Standard High School Certificate, Provisional Certificate for Principalship, Provisional Certificate for Supervisor, and Provisional Certificate for Guidance Counselor. Elementary and secondary teachers may take work leading to Rank I.

Information concerning these curricula may be obtained from the Dean of the Graduate School.

Oldest of Eastern's buildings is the University Building, which houses the Department of History.

AREAS OF CONCENTRATION

Eastern offers areas of concentration in the following fields:

- Art
- Business Education
- Business—Accounting
- Business—Economics
- Business—General Business
- Elementary Education
- English
- Foreign Languages
- Health, Physical Education and Recreation
- Home Economics
- Industrial Arts
- Music
- Science
- Social Science

Eastern offers majors in the following subjects:

- Anthropology
- Art
- Biology
- Business Education—Accounting
- Business Education—General Business
- Business Education—Secretarial Practice
- Chemistry
- Earth Science
- Economics
- English
- French
- Geography
- Geography and Geology
- German
- History
- Industrial Arts
- Latin
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Russian
- Sociology
- Spanish
- Speech
- Speech and Drama

Eastern offers minors in the following subjects:

- Agriculture
- Anthropology
- Art
- Biology
- Business Education—Accounting
- Business Education—General Business
- Business Education—Secretarial Practice
- Chemistry
- Drama
- Earth Science
- Economics
- English
- French
- Geography
- Geography and Geology
- Geology
- German
- Health
- History
- Home Economics
- Latin
- Library Science
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Psychology
- Russian
- Sociology
- Spanish
- Speech

COURSES OF INSTRUCTION

School of Arts and Sciences 77

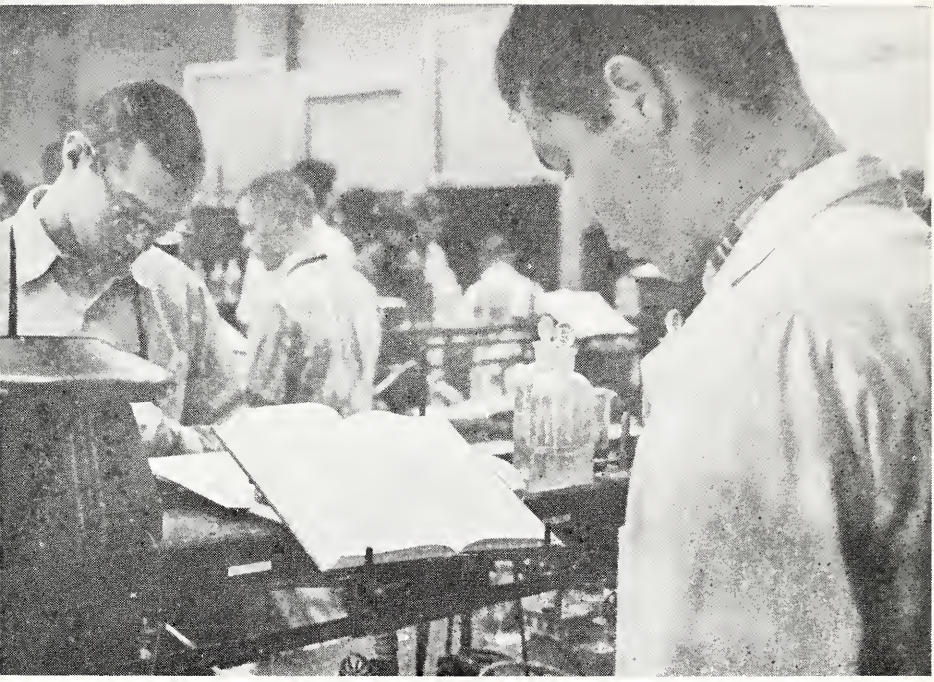
School of Business 179

School of Education 197

School of Technology 217

Part

5



School of Arts & Sciences

Anthropology 78
Art 81
Biology 86
Chemistry 92
Drama and Speech..... 96
English 99
Foreign Languages 105
Geography 113
Geology 120
Health 122
History 123
Mathematics 128
Military Science 133
Music 138
Orientation 151
Physical Education 152
Physics 161
Political Science 166
Science 170
Social Science 172
Sociology 175

ANTHROPOLOGY

(Recommended curriculum for a major in Anthropology without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	English 102	3
English 101	3	Foreign Language	3
Foreign Language	3	Military Science 102 (Men) or Elective (Women)	2
Military Science 101 (Men) or Elective (Women)	2	Orientation 101	1
Orientation 100	1	Physical Education 116	1
Physical Education 115	1	Science 112	3
Science 111	3	Social Science 101	3
	16		16

Second Year

Anthropology 200	3	English 212	3
English 211	3	History 247	3
History 246	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Science 110	3
Science 109	3	Sociology 231	3
Elective	3	Elective	3
	17		17

Third Year

Anthropology 350	3	Anthropology 310	3
Anthropology Elective	3	Anthropology 445	3
Art 200	3	Music 271	3
Elective	6	Elective	6
	15		15

Fourth Year

Anthropology 455	3	Anthropology Elective	6
Anthropology 465	3	Elective	10
Health 201	3		
Elective	7		
	16		16

Recommended Curriculum for a Second Major in Anthropology

A student with a major in another department may take a second major in Anthropology by completing the same courses in Anthropology as required for a first major.

Recommended Curriculum for a Minor in Anthropology

A student with a major and a minor in other departments may take the following courses for a minor in Anthropology: Anthropology 100, 200, 310, 350, 455, and three hours elective in Anthropology.

ANTHROPOLOGY
LOWER DIVISION COURSES

Anthropology 100. Culture and Civilization. **Three hours.**

The scientific study of man's way of life with emphasis on the concept of culture as the key to explaining the distinct differences between man and other animals. The nature and dynamics of culture with examples drawn largely from pre-literate peoples.

Anthropology 200. Bioanthropology. **Three hours.**

Prerequisite: Six hours in Biology.

The study of man as a biological organism; man's evolutionary development from the earliest primate fossil evidence to the formation and spread of modern racial groups; the basic genetic mechanisms which bring about these changes; the techniques of investigation in physical anthropology and an analysis of principal current theories and problems in that field.

ANTHROPOLOGY
UPPER DIVISION COURSES
(Open to Junior, Senior, and Graduate Students)

Anthropology 310. Prehistory. **Three hours.**

Prerequisite: Anthropology 100.

The techniques of archeological investigation followed by a systematic survey of the major prehistoric cultures of the world from their earliest evidence to modern times.

Anthropology 350. Social Anthropology. **Three hours.**

Prerequisite: Anthropology 100 or equivalent.

The use of the comparative approach in the analysis of structure, function, and change in social and cultural systems; the development of generalizations concerning human society based on a comparison of social institutions in various cultures with particular emphasis on nonliterate peoples. (Same as Sociology 350.)

Anthropology 360. The Community. **Three hours.**

Prerequisite: Anthropology 100 and 350 or consent of instructor.

The origin and development of communities; community types, organization, and functions. (Same as Sociology 360.)

Anthropology 400. (Formerly Anthropology 300.) Man's Biocultural Heritage. **Three hours.**

Prerequisite: Anthropology 200 and 310 or consent of instructor.

A study of the interaction between man's biological and cultural evolution and the contribution of each to man's adaptation to and control of his environment; an attempt to synthesize both fact and theory in the biological and cultural evolution of man.

Anthropology 420. Belief Systems of Preliterate Peoples. **Three hours.**

Prerequisite: Anthropology 100 and 350 or consent of instructor.

The world view, beliefs and rituals of selected preliterate peoples considered with reference to religion, magic, and witchcraft; the nature of change in these beliefs and practices and a review of theories advanced to account for them.

Anthropology 440. Language and Culture. **Three hours.**

Prerequisite: Consent of instructor.

An analysis of the role of language in human experience; the mutual effect of language on culture and culture on language.

Anthropology 445. History of Theory on Society and Culture. **Three hours.**

Prerequisite: Anthropology 100 and 350 or consent of instructor.

A chronological analysis of the major theories on society and culture from earliest times through the 1920's. (Same as Sociology 445.)

Anthropology 450. Sociocultural Dynamics. **Three hours.**

Prerequisite: Twelve hours in Anthropology or Sociology or consent of instructor.

An analysis of the various theories of social and cultural change and their relevance to the ongoing social process; an analysis of such concepts as innovation, diffusion, and acculturation in relation to these theories; a consideration of factors involved in maintaining stability or stimulating change. (Same as Sociology 450.)

Anthropology 455. Contemporary Theory on Society and Culture. **Three hours.**

Prerequisite: Anthropology 100 and 350 or consent of instructor; Anthropology 445 strongly recommended.

A systematic analysis of the current major theories on society and culture with emphasis on their importance in research. (Same as Sociology 455.)

Anthropology 465. Methodology in Anthropology and Sociology. **Three hours.**

Prerequisite: Anthropology 100 and 350 or consent of instructor.

An introduction to the various research methods, both field and library, used in anthropology and sociology. Such topics as delimiting the problem, establishing hypotheses, designing the study, collecting and analyzing the data, and writing the research report will be covered. (Same as Sociology 465.)

Anthropology 490. Tutorial in Anthropology. **One to three hours.**

Prerequisite: Twelve hours in Anthropology and consent of instructor.

Individual reading and research on a problem or area within the field of anthropology chosen by the student after consultation with the instructor. The student's work will culminate in a research paper or essay. (May be repeated for a maximum of six hours.)

Anthropology 495. Proseminar in Anthropology and Sociology. **Two hours.**

Prerequisite: Eighteen hours in Anthropology and Sociology or consent of instructor.

A topic of major importance in the fields of Anthropology and Sociology will be selected for intensive investigation. Topic will change from semester to semester. (May be repeated for a maximum of six hours.) (Same as Sociology 495.)

GRADUATE DIVISION COURSES

Anthropology 500. Anthropology and Modern Life. **Three hours.**

An intensive review of the field of anthropology with emphasis on the implications of recent theoretical and factual developments for man in the modern world.

Anthropology 510. Anthropology and Education. **Three hours.**

Prerequisite: Anthropology 500 or an undergraduate background in Anthropology.

A cross-cultured analysis of educational processes; the growth, adaptation, and personality development of the child (enculturation and socialization) including the transmission of skills, knowledge, attitudes, and values; the relationship of the educational process to social structure (effect of class, group alignments, prestige, ranking, status and role, and social control; implications for modern education.

ART

(Recommended curriculum for an area in Art with right of teaching certificate)

First Year

First Semester	Hours
Art 100	3
Art 102	3
English 101	3
Military Science 101 (Men) or Elective (Women)	2
Orientation 100	1
Physical Education 115	1
Science 111	3
Social Science 100	3
	19

Second Semester	Hours
Art 101	3
Art 103	3
English 102	3
Military Science 102 (Men) or Elective (Women)	2
Orientation 101	1
Physical Education 116	1
Science or Mathematics Elective	3
Social Science 101	3
	19

Second Year

Art 203	3
Art 227	3
English 211	3
History 246	3
Military Science 201 (Men) or Elective (Women)	2
Psychology 211	3
	17

Art 204	3
Art 229	3
Education 202	3
English 212	3
History 247	3
Military Science 202 (Men) or Elective (Women)	2
	17

Third Year

Art 329	3
Art 330	3
Art 390	3
Education 315	2
Health 201	3
Science 109	3
	17

Art 327 or 328	3
Art 361	3
Art 391	3
Art Elective	3
Education 316	2
Science or Mathematics Elective	3
	17

Fourth Year

Art 392	3
Art 430	3
Art 462	3
Art Elective	6
	15

Art 461	3
Education 364	4
Education 463	10
	17

ART

(Recommended curriculum for a major in Art with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Art 100	3	Art 101	3
Art 102	3	Art 103	3
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science or Mathematics Elective	3
Social Science 100	3	Social Science 101	3
	19		19

Second Year

Art 203	3	Art 204	3
English 211	3	Education 202	3
History 246	3	English 212	3
Military Science 201 (Men) or Elective (Women)	2	History 247	3
Psychology 211	3	Military Science 202 (Men) or Elective (Women)	2
Elective	3	Elective	3
	17		17

Third Year

Art 229 or 329	3	Art 227 or 327 or 328	3
Art 390	3	Art 361	3
Education 315	2	Art 391	3
Health 201	3	Education 316	2
Science 109	3	Science or Mathematics Elective	3
Elective	3	Elective	3
	17		17

Fourth Year

Art 430	3	Art 461	3
Art 462	3	Education 364	4
Art Elective	3	Education 463	10
Elective	6		
	15		17

Recommended Curriculum for a Second Major in Art

A student with a first major in some other department may take the following courses for a second major in Art: 100, 102, 103, 203, 229 or 329, 227 or 327 or 328, 361, 390, 391, 430.

Recommended Curriculum for a Minor in Art

A student with a major and a minor in other departments may take the following courses for a minor in Art: 102, 103, 390 or 391 or 392, 430, nine hours of elective in Art.

ART

LOWER DIVISION COURSES

Art 100. Drawing I. **Three hours.**

An introduction to the basic principles of drawing, placing emphasis on design with value, line, and texture.

Art 101. Drawing II. **Three hours.**

Prerequisite: Art 100.

A continuation of Drawing I; observation of natural forms.

Art 102. Design, Two-Dimensional. **Three hours.**

An introduction to the abstract characteristics of design with color, line, and texture.

Art 103. Design, Three-Dimensional. **Three hours.**

An introduction to the methods, materials, and concepts related to the control of space.

Art 117. Drawing and Design. **Three hours.**

Orientation of the student to the basic knowledges and skills in art through the use of pencil. tempera, water color, and colored chalks. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts.

Art 200. Art Appreciation: Orientation. **Three hours.**

Designed to establish a basis for judgment and good taste in the consideration and use of art in daily living through the study of examples of architecture, sculpture, painting, weaving, the art of the book, and ceramics.

Art 202. Ceramics and Ceramics Sculpture. **Three hours.**

Prerequisite: Art 117.

Creative experience in three dimensional composition given for the purpose of developing a stronger sense of plastic form; objects molded by hand, and on the potter's wheel.

Art 203. Painting I. **Three hours.**

Prerequisite: Art 101, 102.

Design with color, line, and texture; with emphasis on color.

Art 204. Painting II. **Three hours.**

Prerequisite: Art 203.

Problems in color, line, and texture as they relate to painting media.

Art 227. (Formerly called Structural Design.) Sculpture: The Additive Process. **Three hours.**

Prerequisite: Art 103.

Development of concepts related to the additive process of sculpture: plasticine, clay, plaster, and wax.

Art 229. Crafts, Two-Dimensional. **Three hours.**

Prerequisite: Art 102.

Basic experiences with two dimensional crafts such as collage, mosaics, batik, and stitchery.

ART

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Art 317. (Formerly Art 217.) Lettering and Poster Design. **Three hours.**

Development of ability to apply art principles in the production of hand lettering; lettering structure; spacing; poster design.

Art 321. Drawing and Illustration. **Three hours.**

Prerequisite: Art 117.

Emphasizing skill in drawing and illustration of ideas; specific study of perspective; pictorial composition; illustration of stories; murals; media—pencil. charcoal, water color, and ink.

Art 322. Color and Design. **Three hours.**
Prerequisite: Art 117.
Color theory as related to pigments and sensation; practical color notation; application of color in design.

Art 327. Sculpture, The Constructive Process. **Three hours.**
Development of concepts related to the constructive process of sculpture: wood, metal, plaster, and related materials.

Art 328. Sculpture, The Subtractive Process. **Three hours.**
Development of concepts related to the subtractive process of sculpture: wood, stone, and related materials.

Art 329. Crafts, Three-Dimensional. **Three hours.**
Prerequisite: Art 103.
Basic experiences with three dimensional crafts such as ceramics, metal enameling, metal smithing, and jewelry.

Art 330. Graphics. **Three hours.**
Prerequisite: Art 101, 102.
Basic experiences with relief, intaglio, and planographic printmaking.

Art 360. (Formerly Art 260.) Public School Art. **Three hours.**
Designed to meet the needs of the classroom teacher in understanding the place of art in the general curriculum of the elementary school by correlation and integration, and by appreciation as a special subject. Problems are used to develop art skills, and to enable the teacher to understand the interests and abilities of the child.

Art 361. Art Education in the Elementary School. **Three hours.**
Prerequisite: Art 360.
An inquiry into art education as an integral part of the total school experience and its implications for fostering creative growth and development within the child.

Art 390. Survey of Art History. **Three hours.**
A survey of the development of art and architecture from the Stone Age through the Early Middle Ages.

Art 391. Survey of Art History. **Three hours.**
A survey of the development of art and architecture from the Late Middle Ages through the Baroque in France and England.

Art 392. Survey of Art History. **Three hours.**
A survey of the development of art and architecture from Neo-Classicism and Romanticism through Contemporary.

Art 421. Advanced Drawing. **Three hours.**
Prerequisite: Art 100, 101.
Designed to meet the needs of students who wish to develop further their skill in, and understanding of, drawing.

Art 422. Advanced Painting. **Three hours.**
Prerequisite: Art 203, 204.
Designed to meet the needs of students who wish to further develop their skill in, and understanding of, painting.

Art 430. Materials Inquiry in Art Education. **Three hours.**
Prerequisite: Open only to senior art students who plan to teach.
A diversified inquiry into materials and procedures in the elementary and secondary schools.

Art 460. Art Workshop for Elementary Teachers. **Three hours.**
Prerequisite: Teaching experience.
A workshop involving current art processes, motivation, recent research and publications, and the contemporary philosophies of art education in the elementary school.

Art 461. The Arts in the High School. **Three hours.**

Survey of art in the secondary schools for the purpose of examining the theories and practices in the rural and city high schools. Practice in planning units and courses of study which will give an understanding of our heritage in the arts, and an appreciation of art in daily living.

Art 462. Aesthetics and Criticism. **Three hours.**

Prerequisite: Art 390, 391.

The study of the formal analysis, description, and criticism of works of art.

Art 463. Problems in Art. **Three hours.**

Designed to meet the needs of students who wish to continue certain art projects started in other courses. Problems in painting, design, ceramics, and problems in research in the arts are considered. Limited to seniors and graduate students. May be repeated twice.

GRADUATE DIVISION COURSES

Art 501. Art Appreciation: Great Periods and Their Influences. **Three hours.**

Prerequisite: Six hours in Art.

A course for graduate students who want to pursue art study as it is applied to the examination of the arts and ideas of great periods of development in the Western world.

Art 502. The Art Program in the Public School. **Three hours.**

Prerequisite: Six hours in Art.

A study of the origin, trends, philosophy, and current practices in the art programs of the public schools. Types of programs in the elementary and secondary school will be considered and evaluated. Special attention will be given to program planning, selection and procurement of materials and art room facilities, preparation of teaching personnel, and in-service workshops.

BIOLOGY

(Recommended curriculum for a major in Biology with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 101	3	English 102	3
Mathematics 107 or Chemistry 111	3 or 4	Mathematics 113 or Chemistry 112	3 or 5
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	16 or 18		16 or 19

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111 or Mathematics 107	3 or 4	Chemistry 112 or Mathematics 113	3 or 5
Education 202	3	English 212	3
English 211	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Psychology 211	3
*Elective in Humanities	3	Elective	2
	17 or 19		16 or 19

Third Year

Biology 303	4	Biology 335	2
Biology 325	3	Biology 481	4
Education 315	2	Education 316	2
History 246	3	History 247	3
Physics 131	5	Physics 132	5
	17		16

Fourth Year

Biology 351	3	Biology 471	3
Health 201	3	Education 364	4
*Elective in Humanities	3	Education 463	10
Elective	7		
	16		17

Recommended Curriculum for a Second Major in Biology

With right of teaching certificate.—A student with a first major in some other department may take the following courses for a second major in Biology: Biology 131, 132, 141, 142, 325, 303 or 332 or 342, 335, 351, 481, and nine hours of Chemistry or ten hours of Physics.

Recommended Curriculum for a Minor in Biology

A student with a major and a minor in other departments may take the following courses for a minor in Biology: Biology 131, 132, 141, 142, 325, 335 or 351, 481, and four hours of Chemistry or five hours of Physics.

*Electives to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

BIOLOGY

(Recommended curriculum for a major in Biology without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 101	3	English 102	3
Mathematics 107 or Chemistry 111	3 or 4	Mathematics 113 or Chemistry 112	3 or 5
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	16 or 18		16 or 19

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111 or Mathematics 107	3 or 4	Chemistry 112 or Mathematics 113	3 or 5
English 211	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Elective	2	Elective	2
	16 or 18		16 or 19

Third Year

Biology Elective	4	Biology Elective	4
Physics 131	5	Health 201	3
*Elective in Hmanities	3	Physics 132	5
Elective	4	*Elective in Humanities	3
		Elective	2
	16		17

Fourth Year

Biology Elective	3	Biology Elective	3
Electives	13	Electives	13
	16		16

Recommended Curriculum for a Second Major in Biology

Without right of teaching certificate.—A student with a first major in some other department may take the following courses for a second major in Biology: Biology 131, 132, 141, 142, and 14 hours elective in Biology; nine hours of Chemistry or ten hours of Physics.

* Electives to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

BIOLOGY

LOWER DIVISION COURSES

Biology 131. (Formerly Biology 121.) General Botany I. **Three hours.**
An introductory study of the structure, physiology and ecology of higher plants, with emphasis on basic biological principles. Two lectures and two laboratory hours.

Biology 132. (Formerly Biology 121) General Botany II. **Three hours.**
Prerequisite: Biology 131, or Science 111 and 112.
An introductory study of phylogeny, genetics, ecology, economics and evolution of plants, with emphasis on basic biological principles. Two lectures and two laboratory hours.

Biology 141. (Formerly Biology 122.) General Zoology I. **Four hours.**
An introductory study of the structure, physiology, ecology, phylogeny and economics of animals, with emphasis on basic biological principles. Two lectures and four laboratory hours.

Biology 142. (Formerly Biology 122.) General Zoology II. **Four hours.**
Prerequisite: Biology 141.
A continuation of Biology 141, General Zoology I. Two lectures and four laboratory hours.

Biology 219. (Formerly Biology 29 and 29h.) Physiology. **Three hours.**
Offered for home economics students and physical education students. Credit does not apply toward a major in Biology.
Prerequisite: Science 111.
Fundamental principles of human physiology, with emphasis on the functioning of the circulatory, respiratory, digestive, and excretory systems. Three lecture hours.

Biology 225. (Formerly Biology 25.) Applied Anatomy. **Three hours.**
Prerequisite: Science 111 and 112 or Biology 141 and 142.
Anatomy of the human body with emphasis on the skeleton, muscles and nervous system and their function in physical exercise. One lecture and four laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Biology 303. (Formerly Health 303.) General Bacteriology. **Four hours.**
Prerequisite: Chemistry 111, 112 or Biology 131 and 132.
Study of the morphology, classification and physiology of bacteria; relation of bacteria to fermentations, foods, soil fertility, disease, and industry; methods of culture and of study, media, sterilization, staining techniques. Two lecture hours, and four laboratory hours.

Biology 310. Human Heredity and Eugenics. **Three hours.**
Credit does not apply toward a major in Biology.
A study of inheritance in humans including its implications upon society and the human race. Three lecture hours.

Biology 325. (Formerly Biology 35.) Genetics. **Three hours.**
Prerequisite: Science 112 or Biology 132 or 142.
Laws governing inheritance, variations and evolution in plants, animals and man; the role of heredity in the improvement of cultivated plants, domesticated animals and the human race. Three lecture hours.

Biology 334. (Formerly Biology 32.) Plant Physiology. **Four hours.**

Prerequisite: Biology 131 and 132.

A study of the chemical, physical and biological processes which occur in vascular plants. Two lecture and four laboratory hours.

Biology 335. (Formerly Biology 30.) Local Flora. **Two hours.**

Prerequisite: Biology 131 and 132.

The identification, classification and phylogeny of vascular plants; principles of taxonomy; field trips required. Four laboratory hours.

Biology 336. (Formerly Biology 31.) Woody Plants. **Two hours.**

The identification and classification of local trees and shrubs; key construction. Four laboratory hours.

Biology 342. (Formerly Biology 27 and 28.) Comparative Anatomy. **Five hours.**

Prerequisite: Biology 141 and 142.

Chordate characteristics and taxonomy; comparative anatomy of the principle organ systems: emphasis in laboratory upon lower chordate, fish, amphibian, bird and cat. Three lecture and four laboratory hours.

Biology 343. (Formerly Biology 37.) Entomology. **Three hours.**

Prerequisite: Biology 141 and 142.

Taxonomy, identification, life histories. physiology, economic importance, methods of control and collection of insects, with emphasis on local forms. One lecture and four laboratory hours.

Biology 344. (Formerly Biology 38; formerly called Bird Study) Ornithology. **Two hours.**

Identification, anatomy, physiology, economic importance and natural history of birds. Early morning field trips will be required. One lecture, two laboratory hours.

Biology 347. (Formerly Biology 47.) Embryology. **Four hours.**

Prerequisite: Biology 342.

Detailed study of the embroyology of the starfish, frog, and chicken, with some consideration of mammalian embryology. Two lecture and four laboratory hours.

Biology 351. Vertebrate Natural History. **Three Hours.**

Prerequisite: Biology 142.

Lectures, laboratory and field exercises on the taxonomy, evolution, distribution, morphology, behavior, adaptations, habits and life histories of fishes, amphibians, reptiles and mammals. One lecture and four laboratory-discussion hours.

Biology 360. Fundamentals of Biology I. **Four hours.**

General principles of biology, including studies in morphology, anatomy, physiology, ecology, heredity and evolution of plants and animals. Lecture two hours; laboratory and discussion four hours.

Biology 361. Fundamentals of Biology II. **Four hours.**

A continuation of Biology 360. Lecture, two hours; laboratory and discussion, four hours

Biology 401. Biology for High School Teachers I. **Three hours.**

Prerequisite: One year of college biology.

Basic principles of botany and zoology which will be of special interest to in-service teachers of science; modern concepts and recent discoveries in biology; new approaches to biology at the high school level. Lecture two hours, laboratory and discussion two hours.

Biology 402. Biology for High School Teachers II. **Three hours.**

A continuation of Biology 401. Lecture two hours, laboratory and discussion two hours.

Biology 421. Morphology of Non-Vascular Plants. **Three hours.**

Prerequisite: Biology 132.

The morphology, anatomy, reproduction, development and unusual biological activities of the algae, fungi, liverworts and mosses One lecture and four laboratory-discussion hours.

Biology 422. Morphology of Vascular Plants. **Three hours.**
Prerequisite: Biology 132.
The morphology, anatomy, reproduction, development and geological history of psilophytes, club mosses, horsetails, ferns, cycads, conifers and flowering plants One lecture and four laboratory-discussion hours.

Biology 433. Economic Plants. **Three hours.**
The economic importance of plants and plant products; the utility of plants in relation to wood products, textiles, foods, condiments, beverages, drugs, poisons; the role of plants in ornamentation, conservation and world events. Three lecture hours.

Biology 441. (Formerly Biology 44.) Invertebrate Zoology. **Four hours.**
Prerequisite: Biology 141 and 142
Characteristics, life histories, taxonomy, ecology and evolution of the invertebrates. Two lecture and four laboratory hours.

Biology 444. (Formerly Biology 45.) Parasitology. **Three hours.**
Prerequisite: Biology 141 and 142.
The morphology, life histories, epidemology and methods of diagnosis and control of animal parasites, with emphasis upon those of man and domesticated animals. Two lecture and three laboratory hours.

Biology 445. Microtechnique. **Two hours.**
Prerequisite: Biology 141 and 142 or Biology 131 and 132.
The technique of preparing plant and animal tissues for microscopic study. Four laboratory hours.

Biology 446. Histology. **Three hours.**
Prerequisite: Biology 342.
The microscopic study of animal tissues and an introduction to organology. One lecture hour and four laboratory hours.

Biology 451. Ecology. **Three hours.**
Prerequisite: Biology 131, 132, 141, 142.
The relation of plants and animals to their environment. Field trips required. Two lecture hours, three laboratory hours.

Biology 471. The Teaching of Biology. **Three hours.**
Prerequisite: 18 hours of biology and approval of head of department.
Materials and methods in teaching biology in secondary schools; modern approaches to biology; the organization, planning, directed observation, execution and evaluation of the classroom and laboratory activities; the sources, preparation, and use of biological materials; planning, construction, care and use of equipment; conduction of field trips.

Biology 481. (Formerly Biology 48.) Animal Physiology. **Four hours.**
Prerequisite: Biology 141, 142 and Chemistry 111.
Detailed study of the chemistry and physics of the physiological activities of animals. Two lecture and four laboratory hours.

Biology 490. Experimental Biology. **Three hours.**
Prerequisite: Senior standing in biology and departmental approval.
An introduction to experimental procedures in biology and to the use of special instruments in biological teaching and research. Six laboratory-discussion hours.

Biology 491. (Formerly Biology 49.) Problems in Biology. **One to four hours.**
Prerequisite: Departmental permission.
The individual study of special problems in biology.

Biology 499. Biology Seminar. **One hour.**
Prerequisite: Major in biology and five semesters of college credit.
Required of all biology majors. Members of the faculty and majors will meet weekly for presentation and discussion of classical and current developments in specialized fields of biology.

GRADUATE DIVISION COURSES

Biology 501. Advanced Botany I. **Three hours.**

Individual study in one or two fields of botany selected to meet the specific needs of the student. Topics may be selected from such areas as anatomy, physiology, taxonomy, mycology, morphology, and ecology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

Biology 502. Advanced Botany II. **Three hours.**

A continuation of Biology 501.

Biology 503. Advanced Zoology I. **Three hours.**

Individual study in one or two fields of zoology selected to meet the specific needs of the student. Topics may be selected from such areas as morphyology, physiology, taxonomy, ecology, invertebrate zoology, anatomy, and embryology. Laboratory work will be estressed. Six lecture-discussion-laboratory hours.

Biology 504. Advanced Zoology II. **Three hours**

A continuation of Biology 503.

Biology 505. Principles of Biology I. **Three hours.**

A study of the basic principles of biology and the history of their development. Included may be such topics as the cell theory, evolution, anthropology, inheritance, conservation, alternation of generations, ontogeny, life, classical experiments, economics and philosophy. Three lecture-discussion hours.

Biology 506. Principles of Biology II. **Three hours.**

A continuation of Biology 505.

Biology 511. Biology for Elementary Teachers. **Three hours.**

Experiments and demonstrations essential to the teaching of biological concepts of science in grades K through 6. Six discussion-laboratory hours.

Biology 571. Research and Thesis Seminar. **Two hours.**

Prerequisite: Approval by chairman of biology department.

Research in biology followed by the preparation of a thesis under the guidance of a member of the biology faculty.

Biology 572. Research and Thesis Seminar. **Two hours.**

Continuation of Biology 571.

Biology 573. Research and Thesis Seminar. **Two hours.**

Continuation of Biology 572.

CHEMISTRY

(Recommended curriculum for a major in Chemistry with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men) or *Elective (Women)	2	Military Science 102 (Men) or *Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	17 or 18		18 or 19

Second Year

Chemistry 211	5	Chemistry 212	5
English 211	3	Education 202	3
History 246	3	English 212	3
Mathematics 107	3	History 247	3
Military Science 201 (Men) or *Elective (Women)	2	Mathematics 113	3
		Military Science 202 (Men) or *Elective (Women)	2
	16		19

Third Year

Chemistry 310	5	Education 315	2
Health 201	3	Physics 132	5
Physics 131	5	*Elective	9
Psychology 211	3		
	16		16

Fourth Year

Chemistry 415	5	Education 364	4
Education 316	2	Education 463	10
*Elective	9	Science 410	3
	16		17

Recommended Curriculum for a Second Major

A student with a first major in some other department may take the following courses for a second major in Chemistry: Chemistry 111, 112, 211, 212, 310.

Recommended Curriculum for a Minor in Chemistry

A student with a major and a minor in other departments may take the following courses for a minor in Chemistry: Chemistry 111, 112, 211, 310.

* Electives to include six hours chosen from the following courses: Art 200, Art 390. Art 391. Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

CHEMISTRY

(Recommended curriculum for a major in Chemistry without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	17		18

Second Year

Chemistry 211	5	Chemistry 212	5
English 211	3	English 212	3
History 246	3	Geology 301 or 305	3
Mathematics 108	2	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Mathematics 232	3
Elective	3	Military Science 202 (Men) or Elective (Women)	2
	18		19

Third Year

Chemistry 310	5	Chemistry 312	5
Foreign Language	3	Foreign Language	3
Mathematics 251	5	Mathematics 352	3
Physics 131	5	Physics 132	5
	18		16

Fourth Year

Chemistry 415	5	Chemistry 416	5
Chemistry 420	4	Foreign Language	3
Foreign Language	3	Physics Elective	3
Physics 203	3	Elective	5
Elective	3		
	18		16

Pre-medical students will follow the pre-medical curriculum.

Students desiring to pursue a program working toward a professional chemist should check with the Chemistry Department regarding additional requirements.

Recommended Curriculum for a Second Major

A student with a first major in some other department may take the following courses for a second major in Chemistry: Chemistry 111, 112, 211, 212, 310.

Recommended Curriculum for a Minor

A student will take the following courses for a minor in Chemistry: Chemistry 111, 112, 211, 310.

CHEMISTRY

LOWER DIVISION COURSES

Chemistry 111. General Chemistry. **Four hours.**

A study of the properties of matter, changes in matter, and the laws or principles which govern these changes. Topics included are: chemical symbolism; atomic structure; periodic classification of the elements; chemical bonding; stoiciometry; the states of matter; and solution chemistry. Three lecture and two laboratory hours.

Chemistry 112. General Chemistry. **Five hours.**

A continuation of Chemistry 111. Oxidation and reduction, continued study of metals and non-metals, including the transition elements; radioactivity; electrochemistry; the colloidal state; and introduction to organic chemistry. Three lecture and four laboratory hours.

Chemistry 112b. Basic Organic and Biochemistry. **Five hours.**

Prerequisite: Chemistry 111.

An introductory course with emphasis on topics of importance to students majoring in home economics and nursing. A study is made of the common organic functional group reactions; carbohydrates; amino acids and proteins. lipids, vitamins, synthetic fibers and metabolism of carbohydrates, proteins and lipids. Three lecture and four laboratory hours.

Chemistry 211. Qualitative Analysis. **Five hours.**

Prerequisites: Chemistry 111 and 112.

Reactions of cations and anions; solutions; equilibrium; oxidation and reduction; hydrogen-ion concentration and pH; complex ion formation. Two lecture and six laboratory hours.

Chemistry 212. Quantitative Analysis. **Five hours.**

Prerequisite: Chemistry 211.

The principles and use of the analytical balance; care and use of analytical equipment; preparation of solutions, quantitative and qualitative; solubility product and laws of precipitation and solution; principles of stoichiometry; quantitative determinations of common metals and nonmetals by gravimetric, volumetric and electrolytic methods. Two lecture and six laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Chemistry 310. Organic Chemistry. **Five hours.**

Prerequisites: Chemistry 111 and 112.

Structural theory; hydrocarbons; carbonium ion theory; benzene and resonance; aromatic compounds; introductory stereochemistry; alcohols; alkyl halides; aryl halides; ethers and epoxides. Three lecture and six laboratory hours.

Chemistry 312. Advanced Organic Chemistry. **Five hours.**

Prerequisite: Chemistry 310.

Carboxylic acids and derivaties, including fats and oils; sulfonic acids; amines; diazonium salts; phenols; aldehydes and ketones; glycols and dicarboxylic acids; polyfunctional carbonyl compounds; carbohydrates; amino acids and proteins; polynuclear and heterocyclic compounds. Three lecture and six laboratory hours.

Chemistry 313. Biochemistry. **Five hours.**

Prerequisite: Chemistry 310.

Qualitative tests for digested substances in vivo and in vitreo; chemical nature of muscle, blood and bone; enzyme action, urine analysis. Three lecture and four laboratory hours.

Chemistry 330. Chemistry Problems. **Three hours.**

Prerequisites: Junior or senior standing in chemistry and departmental approval.

This course is recommended for pre-medical and secondary education students with a chemistry major and biological and physical science majors. The students may choose special projects related to their area of interest. Problems are offered in inorganic, physical, organic, analytical, and biochemistry. Six laboratory hours per week.

Chemistry 360. Fundamentals of General Chemistry. **Four hours.**

A consideration of the important topics from general chemistry. Includes: atoms and atomic theory, atomic structure, periodic classification, molecules, chemical bonding, gases, liquids and solids. ionization, acids and bases, equilibrium, energy and reaction rates, carbon chemistry, organic reactions, polymers, etc. Lecture three hours; laboratory and discussion two hours.

Chemistry 401. Chemical Literature. **One hour.**

Prerequisite: Chemistry 310.

The students will be introduced to the use of the fundamental periodicals, abstract journals, handbooks, review series and encyclopedias of chemistry. One lecture hour.

Chemistry 413. Physical Chemistry for the Biological Sciences. **Five hours.**

Prerequisites: College Algebra and Chemistry 111, 112, 211, 212, or equivalent.

This course is recommended for students in the biological sciences and related areas. Topics to be considered are: states of matter, colligative properties of solutions, thermodynamics, equilibrium, electrochemistry. colloids, and reaction kinetics. (Chemistry majors will take Chemistry 415 and 416.) Three lecture and four laboratory hours.

Chemistry 415. Physical Chemistry. **Five hours.**

Prerequisites: Chemistry 212 and Mathematics 107 and 113.

The nature of the gaseous, liquid and solid states; thermo-chemistry and thermodynamics; solutions; colloids. Three lecture and four laboratory hours.

Chemistry 416. Physical Chemistry. **Five hours.**

Prerequisite: Chemistry 415.

Continuation of Chemistry 415. Chemical equilibria; phase rule; chemical kinetics; electrochemistry; ionic equilibria; atomic and molecular structure. Three lecture and four laboratory hours.

Chemistry 420. (Formerly Chemistry 320.) Instrumental Methods. **Four hours.**

Prerequisite: Chemistry 212, 310, and permission of instructor.

The principles and uses of optical and electrical instruments in analysis. Colorimetric, spectrophotometric (including infra-red), conductometric, potentiometric, polarographic and chromatographic methods and determinations, methods of nuclear chemistry. Two lecture and four laboratory hours.

Chemistry 430. Research in Chemistry. **Three to five hours.**

Prerequisites: Junior or senior standing in chemistry and departmental approval.

Research in inorganic, organic, analytical, physical or biochemical problems. The course may be repeated to a maximum of ten credit hours. Three laboratory hours per week for each credit hour.

Chemistry 440. Advanced Inorganic Chemistry. **Two hours.**

Prerequisite: Senior standing in Chemistry.

Modern concepts of atomic nuclei, atomic structure, and classification of elements. Nature of the chemical bond. Complex ions and coordination compounds. Reactions and substances in aqueous and nonaqueous media. Radioactive and nuclear chemistry. Two lecture hours.

Chemistry 450. Recent Advances in Chemistry. **Two hours.**

Prerequisite: Senior standing in Chemistry.

Lecture and discussion of recent advances in chemistry including references to domestic and foreign (German) literature. Two lectures or conferences weekly.

DRAMA AND SPEECH

(Recommended curriculum for a first major in Speech with right of certification)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
Speech 131	3	Speech 230	3
	16		16

Second Year

English 211	3	Education 202	3
History 246	3	English 212	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Psychology 211	3	Science 110	3
Science 109	3	Speech 231	3
Speech 205	3	Elective	3
	17		17

Third Year

Education 315	2	Art 200	3
Drama Elective	3	Education 316	2
Health 201	3	English 265	3
Music 271	3	History 247	3
Speech 331	3	Speech Elective	3
Elective	3	Elective	3
	17		17

Fourth Year

Education 364	4	Drama Elective	3
Education 463	10	English Literature Elective	3
Speech 463	3	Speech Elective	6
		Elective	6
	17		18

Recommended Curriculum for a first major in Speech without right of teaching

Students who wish to major in Speech without right of teaching certificate should complete the curriculum given above but substitute other courses for the Education courses. Foreign language is recommended for all Speech majors. Also recommended is English 301.

SPEECH AND DRAMA MAJOR (with right of teaching certificate):

A student may complete a combination major in Speech and Drama by completing the curriculum for a major in Speech but substituting Drama courses (with consent of advisor) for Speech electives and by adding three additional hours in Drama.

SECOND MAJOR IN SPEECH:

A student may complete a second major in Speech by taking Speech 131, 205, 230, 231, 331, 341, and six hours of elective in Speech and three hours of elective in Drama.

SPEECH MINOR:

A student may complete a minor in Speech by taking Speech 131, 230, 231, 341, six semester hours of Speech elective, and three hours of Drama.

DRAMA MINOR:

A student may complete a minor in Drama by taking the following courses: Drama 222, 242, 262, 363, Speech 131, and six semester hours of Drama elective.

SPEECH

Speech 131. Fundamentals of Speech. **Three hours.**

Course is designed to give the student adequate theory and practice in informative and persuasive public speaking, in critical listening theory, and criticism designed to help improve the student's speaking ability.

Speech 205. (Formerly English 31, 205, 305.) Discussion and Debate. **Three hours.**

Prerequisite: English 101 and 102.

Logic and semantics; process and persuasion in the formation of public opinion; application of discussion and debate as essential tools for reaching decisions in a democratic society.

Speech 206. Advanced Discussion and Debate. **Three hours.**

Prerequisite: Speech 205.

Complete preparation and practice in tournament debating and discussion. Development of proficiency in debate practice. Admittance by permission of the instructor.

Speech 230. Voice and Diction. **Three hours.**

Prerequisite: Speech 131; English 101 and 102.

Designed to aid students to increase skill in speaking aloud; to develop proper breathing, vocal resonance, and projection of tone; to give individual work on student's articulation and pronunciation problems by the use of the tape recorder.

Speech 231. Public Speaking. **Three hours.**

Prerequisite: Speech 131; English 101 and 102.

Basic rhetorical theory, both Aristotelian and contemporary, in the art of persuasive speaking; practice in preparation and delivery of persuasive speeches; analysis of speeches of great orators, both written and recorded.

Speech 331. Introduction to Speech Correction. **Three hours.**

Prerequisite: Speech 131 or 231; English 101 and 102.

This course is designed to help the classroom teacher know the various types of speech defects, the behavior patterns of speech defectives, diagnostic and remedial procedures for functional disorders; what speech problems can be corrected by the classroom teacher and what steps should be taken for guidance in seeking specialized help.

Speech 341. (Formerly English 431.) Oral Interpretation. **Three hours.**

Prerequisite: Speech 230.

Analysis of structure, style, organization, and the various devices used in literature; usable standards for evaluating material; suggestions for preparing material and presenting it to an audience, including the use of the voice and body.

Speech 451. Dramatic Reading. **Three hours.**

Prerequisite: Speech 131 and 230.

Selecting, cutting, and presenting of various types of literature, both prose and poetry, on an individual basis, with criticism and evaluation aimed toward improvement in oral reading. Group work in a specialized art form, Readers' Theatre, with participation required in one piece of literature presented to an outside audience.

Speech 461. Problems in Teaching Speech in Elementary and Secondary Schools. **Three hours.**

Prerequisite: Speech 131, 231, 341.

Philosophy of speech education; planning a course of study; effective teaching of speech through the curricular program and through extra-curricular activities, such as discussion, debate, and contests in other speech areas. Attention is given to developing the student's ability to recognize and correct children's speech problems.

Speech 463. Teaching of Speech. **Three hours.**

Prerequisite: A major or a minor in Speech. A course for students who are to teach Speech.

Objectives of Speech; critical analysis and selection of textbooks, activities, and materials; review and application of educational principles and psychology of learning to the studying and teaching of Speech; different methods and techniques of teaching the various phases of Speech—fundamentals of public speaking, debate, oral interpretation, and speech correction; study of teaching by observing good teaching; interrelationship of Speech to other school subjects and activities; study of various methods and plans of teaching; standards of achievement for Speech; evaluation; extracurricular activities for the Speech teacher.

DRAMA

Drama 222. Introduction to Theater. **Three hours.**

Course designed to study important trends, production methods, and personalities in theater from the Greek theater up to Ibsen.

Drama 242. Stagecraft and Scenic Design. **Three hours.**

Theory and practice in the technical aspects of design, construction, painting, make-up, and lighting of scenery, with some consideration of the history and development of the art of stagecraft. Open to all students. One lecture period and three laboratory periods per week.

Drama 243. Stagecraft and Scenic Design. **Three hours.**

Continuation of 242. One lecture period and three laboratory periods per week.

Drama 262. Fundamentals of Acting. **Three hours.**

Course designed for individual development of acting technique for stage presentation or teaching. Emphasis given to developing an acting style best suited to the individual.

Drama 264. Advanced Acting Techniques. **Three hours.**

Prerequisite: Drama 262.

Course designed for individual development of acting skills. Special emphasis given to schools of acting and different methods of preparation. Admittance to the class by approval of the instructor only.

Drama 363. (Formerly English 263.) Fundamentals of Directing. **Three hours.**

All aspects of play direction examined—staging, try-outs, rehearsals, theory, and terminology. Final examination involves direction of a one-act play.

Drama 463. Staging Problems. **Three hours.**

Prerequisites: Drama 262 and 363.

Course designed to encourage professional ability in directing. Each individual will be expected to develop a practical system of directing. Course will require several one-act plays to be directed and one three-act play for final examination.

Drama 465. Children's Theater Production. **Two hours.**

Prerequisites: Drama 242 and 363.

Dramatization of children's stories and presentation of plays for children. Student will work in training school. Principles of creative dramatics. Course developed through study, observation, and practice.

ENGLISH

(English Language and Literature, Drama, Speech)

FIRST MAJOR IN ENGLISH (with right of teaching certificate):

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
*Science 111	3	*Science 112	3
Social Science 100	3	Social Science 101	3
Orientation 100	1	**Speech 131 or 231	3
		Orientation 101	1
	16		19

Second Year

English 211	3	Education 202	3
English 265	3	English 212	3
Foreign Language	3	Foreign Language	3
Health 201	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Psychology 211	3
Science 109	3	Science 110	3
	17		17

Third Year

Art 200	3	Education 316	2
Education 315	2	English 302	2
English 301	2	English Elective	4
English Elective	3	History 247	3
History 246	3	Elective	6
Elective	5		
	18		17

Fourth Year

Education 364	4	English 441	3
Education 463	10	History 340, 341, or 342	3
English 463	3	Music 271	3
		Elective	7
	17		16

The student who wishes to major in English without right of certification to teach may follow the curriculum for the first major given above, but substitute other courses for those in education.

For the electives in English, students should take one course in group 4 and one course from each of the other groups to make a minimum total of 32 hours including English 101 and 102.

1. English 201, 216, one course in Drama, one course in Speech
2. English 311, 312, 319, 321, 325
3. English 314, 317, 318, 322
4. English 421, 423, 424, 425

* Three hours of mathematics or three hours in other natural science may be taken instead of one of the science courses listed in the English curriculum.

** If Speech 231 is elected, it must be postponed until the second year or later. Speech 131 should be taken in the first year.

AREA IN ENGLISH:

A student may take an area in English by earning a total of at least 54 semester hours including English 101 and 102. In general, the student may follow the curriculum for a first major in English, adding at least 22 additional hours and selecting them in such a way that the 48 hours exclusive of freshman English will be distributed as follows: 30 semester hours in Grammar, Composition, and Literature; and 18 semester hours distributed among Speech, Drama, and Journalism. Any extra hours should be taken in the field of Literature.

SECOND MAJOR IN ENGLISH:

A student with a first major in some other department may take the following courses for a second major in English: English 101, 102, 211, 212, 265, 301, 302, 441, Speech 131 or Speech 231, and one course each from any three of the following groups to make a minimum of 30 hours including English 101 and 102:

1. English 201, 319, 325, Speech 205, Drama 262 or 363
2. English 311, 312, 314, 317
3. English 318, 321, 322
4. English 421, 423, 424, 425

Students with a second major in English are urged to meet the requirements in foreign language for the first major if it is possible to do so.

MINOR IN ENGLISH:

The following courses are required for a minor in English: English 101, 102, 211, 212, 265, 301, Speech 131 or 231, and four additional hours in literature.

ENGLISH

LOWER DIVISION COURSES

English 101. (Formerly English 10a, 10b.) Spoken and Written Communication I. **Three hours.**

Study or review of the mechanics of expression, such as grammar, punctuation, spelling, and sentence structure; word study and good usage; including the use of the dictionary; practice in letter writing and in organizing and presenting both in writing and speaking (especially in brief compositions and expository speeches) material from the student's experience and observation and from his reading and study; some practice in more effective reading and listening.

English 102. (Formerly English 10b, 10c.) Spoken and Written Communication II. **Three hours.**

Prerequisite: English 101.

Continued practice in organizing and presenting material as written and spoken composition. Longer compositions; at least one longish investigative paper which employs the elementary principles of research; paragraph structure and development; emphasis on reading and analysis; acceptable usage in speaking and writing.

English 200. Journalism and Society. **Two hours.**

An introduction to mass communications; a study of newspapers, magazines, radio, television, and business and industrial publications; the history of mass communications; social, political, and economic roles in modern society; the industries and professions related to mass communications; reading in current periodicals and journalistic literature. (May be taken by freshmen by special permission of the instructor.)

English 201. Journalism, Newswriting. **Two hours.**

Prerequisite: English 101 and 102.

Practice in news gathering and writing; background study of the nature of the newspapers and other media; student writing for publication in the campus newspaper.

English 202. Journalism, Feature Writing. **Two hours.**

Prerequisites: English 101 and 102. (Desirable for students to take English 201 before English 202.)

Practice in writing feature stories for newspapers and magazines; background study of professionally-written features; writing procedure; free-lance markets; writing designed for publication in newspapers and magazines.

English 211. (Formerly English 218, 21a.) Survey of Literature I. **Three hours.**

Prerequisite: English 101 and 102.

Selections from the great masterpieces of Greek and Latin poetry, drama, history, and philosophy; selections from Oriental, Hebrew, and Mohammedan literature; selections from medieval myth, saga, and romance; selections from the literature of the Renaissance.

English 212. (Formerly English 219, 21c.) Survey of Literature II. **Three hours.**

Prerequisite: English 101 and 102.

Selections from continental, English, and American literature; types of literature, such as poetry, drama, short story, essays; the study of the writings of outstanding authors of the various periods of literature; literary background and criticism.

English 216. (Formerly English 22.) The Short Story. **Two hours.**

Prerequisite: English 101 and 102 and one course in literature.

Technique of the short story; development of the short story as a literary type; romanticism and realism in stories; the short story in America; short stories for the high school; the writing of a story or a paper.

English 265. (Formerly called Grammar for Teachers.) Advanced English Grammar. **Three hours.**

Prerequisite: English 101 and 102.

A complete course in English grammar emphasizing principles of modern English usage; a brief overview of the history of the English language; a brief study of the terminology of grammar and linguistics; a study of the parts of speech and their forms and uses in modern English; an intensive study of English syntax through analyzing (diagramming and parsing) sentences from the oral and written speech of cultivated speakers and writers and from the oral and written speech of students; much emphasis on present-day usage and practice in correcting sub-standard English; a brief introduction to new approaches to the study of language.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

English 301. Advanced Composition I. **Two hours.**

Prerequisite: English 101 and 102.

Required of juniors and seniors who have less than six hours of freshman English. Required written reports, precis, informational essays, feature articles, book reviews, critical essays, research articles. Students are encouraged to write with a view to submitting their articles to suitable periodicals for publication.

English 302. Advanced Composition II. **Two hours.**

Prerequisite: English 301.

Practice in writing short stories, one-act dramas, and poems. Students are encouraged to write with a view to submitting their composition to suitable agencies for publication.

English 303. Journalism Practice I. **One hour.** (May be repeated three times)

Prerequisites: English 101 and 102.

Supervised laboratory work in the medium of newspaper communication; designed to give the student practical experience on the staff of a weekly newspaper; study of techniques; analysis of problems; at least two meetings each week for evaluation of work.

English 304. Journalism Practice II. **One hour.** (May be repeated three times)

A continuation of English 303.

English 307. Journalism, Editorial Writing. **Two hours.**

Prerequisite: English 200, 201, 202, or English 301.

Instruction and practice in writing editorials, letters to the editor, columns, and interpretative articles on subjects of the sudent's choice; reading and analysis of editorial writing and practices; student writing designed for publication in the campus newspaper and other newspapers and periodicals; studies of the editorial pages of campus and metropolitan newspapers.

English 311. (Formerly English 32a and 32b.) Shakespeare. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Elizabethan England as a background for the Shakespearian drama; early Elizabethan drama; Elizabethan theories of comedy and tragedy; development of Shakespeare's dramatic genius; problems of authorship, chronology and texts; the great comedies, histories, and tragedies; rapid reading of many plays and more careful study of a few of the great plays.

Engl'sh 312. (Formerly English 33.) Modern Drama. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Ibsen and his influence; the free theater and the new drama on the continent; naturalism and expressionism; the independent theater and the dramatic revival in England; the Abbey Theater and the Irish Renaissance; American imitators of the European drama; the little theater movement; Eugene O'Neill and the repertory theater; experimental drama.

English 314. (Formerly English 34a and 34b.) The Novel. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

History, development, and survey of the English novel and the American novel from their beginnings to 1920; content and literary characteristics of the different types of novels; foreign influences; extensive reading and discussion of the different types of novels.

English 317. (Formerly called Contemporary Literature.) Modern Novel. **Three hours.**

Prerequisite: English 101, 102, and six hours of literature.

British and American novels of the twentieth century since 1920; new authors, new influences, new trends; form, quality, content of the twentieth century novel; history and development of the novel of the twentieth century; critical study of selected novels; some consideration of novels of other nations; extensive reading of novels.

Engl'sh 318. (Formerly English 36.) Literature of the United States. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Persistence of pioneer attitude in American literature; the case for religious, political, personal, and economic freedom; from rugged individualism toward social concern; "woods longing" and the open road; quest for the ideal; interracial accommodation and conflict; progress toward realism; men and nature; men and machines; men and earth; literary evaluation; teaching techniques; writers as human beings; topics inherent in selected individual writings from colonial times to the present.

English 319. (Formerly English 461 and 40.) Kentucky Literature. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

The economic, political, social, and religious background of the early Kentuckians as expressed in their writings; ante-bellum literature; the influence of the War Between the States; the rise of local color fiction; the revival of poetry; present-day writers and tendencies; ballads; seventeenth century survivals in the native idiom; opportunity for students to become familiar with the John Wilson Townsend Collection.

English 321. (Formerly English 37a.) Poetry and Prose of the Romantic Period. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

In poetry the rise, development, and culmination of Romanticism; the impact of German metaphysics; the development of poetic form in Wordsworth and Coleridge; the return to the past in Scott and Southey; revolt and satire in Byron; Shelley and democratic idealism; Keats and esthetics. In prose the development of the essay as a medium of self-expression, literary criticism, and social ideals, as exemplified in the writings of Lamb, Coleridge, Hazlitt, De Quincey, and Landor.

English 322. (Formerly English 37b.) Poetry and Prose of the Victorian Period. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Social ideals, political principles, religious conceptions, scientific theories, and cultural changes as mirrored in the non-fictional prose of such Victorian writers as Macaulay, Carlyle, Newman, Mill, Spencer, Arnold, Huxley, Ruskin, Stevenson, and Pater. The poetic cycle from Tennyson to Housman, reflecting the religious faith and doubt, social reform and unrest, estheticism, and skepticism of the period.

English 323. Modern Poetry. **Three hours.**

Prerequisite: English 101, 102, and six hours of literature.

Major British and American poets of the twentieth century; form and content of modern poetry; analysis, interpretation, and criticism of modern poetry; special studies; writing of poetry by the students.

English 325. Literature of the Old Testament. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Reading of the entire Testament: (1) the books of history and law, from Genesis through Nehemiah; (2) the prophets, in chronological order, studying the insights of each in relation to his times; (3) the remaining third part of the Canon—its wisdom literature, dramatic poetry, lyric poetry, and masterful short narrative. A study of truth and beauty in the most significant of national literatures.

English 360. This course has been discontinued. See Library Science 301.

English 402. Creative Writing. **Three hours.**

A seminar course in writing open to those students who have had English 302 or who have a desire to have their manuscripts criticized before being submitted for publication. Fiction, drama, poetry, biography, or the informal essay accepted.

English 403. Creative Writing Conference. **One hour.**

Prerequisite: English 101 and 102; permission of the director of the course.

A one-week course of fifteen informal lectures and discussions led by Eastern faculty members and visiting lecturers; special conferences and counseling; criticism of student writing; lectures on modern creative art and artists; readings of their own work by visiting authors; discussions of the problems of composition and publication. Each student must submit a short story, or a one-act play, or four poems.

English 421. (Formerly English 42.) Renaissance and Elizabethan Literature. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Spirit of the Renaissance; influence of Italian and other continental literatures; early English humanists; Elizabethan enthusiasm; the Elizabethan language; new literary influences; chief literary forms; Spenser and Elizabethan poetry the great sonneteers; Sidney and criticism; Bacon and scientific writing; the Shakespearian poetry; Ben Jonson, Drayton, and Daniel; prose fiction; Elizabethan drama.

English 423. (Formerly English 43.) Milton and the Puritan Period. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

The Puritan background; life of Milton as it affected his writings; his earlier poetry; development of his genius; the great epic Paradise Lost and its interpretation; Paradise Regained and Samson Agonistes; other writers of the period and their writings.

English 424. (Formerly English 44.) Chaucer and Medieval Story. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Study of the various types of medieval story—the folk-epic, the beast tale, the metrical romance, the fabliau, the saint's legend, and the ballad—and of the social and moral ideals which they reveal.

English 425. (Formerly called the Age of Classicism.) The Age of Dryden, Pope, and Johnson. **Three hours.**

Prerequisites: English 101, 102, and two courses in literature.

Social backgrounds of classicism; Restoration drama as a reaction against Puritanism; Dryden and the rise of the critical spirit; Pope and the Augustans; the literary dictatorship of Dr. Johnson; new tendencies in the pre-romantic writers.

English 441. (Formerly English 47.) History of the English Language. **Three hours.**

Prerequisite: Two years of work in English toward a major or minor in English.

The family of languages; the Old English period; the Middle English period; modern English; the foreign and native elements in English; history of English vowel sounds; mutation and graduation; the consonants; English inflections; English accent; collateral readings in the less technical works on the English language.

English 463. Teaching of High School English. **Three hours.**

Prerequisite: A major or a minor in English.

This course, designed for students who are to do student teaching in English, deals with objectives of high school English; critical analysis and selection of text books, activities, and materials; review and application of educational principles and psychology of learning to the studying and teaching of high school English; different methods and techniques of teaching the various phases of high school English—speech, written composition, grammar, and literature; study of various methods of teaching by observing good teaching; interrelationship of English to other high school subjects and activities; study of various methods and plans of teaching; standards of achievement for high school English; evaluation; extracurricular activities for the English teachers; planned program of instruction.

GRADUATE DIVISION COURSES

English 501. Advanced Composition III. **Three hours.**

For graduate students who have not had English 301.

Much writing of many kinds and forms, principally expository or utilitarian in character rather than belles-lettres; study of the principles of such writing and of well-written examples of the types being written; as much attention as is required to matters of style and correctness, it being imperative that graduate students possess or attain a reasonable mastery of these.

English 511. The Development of English Drama to 1642. **Three hours.**

Medieval liturgical drama; early miracle plays and the guild cycles; morality plays and interludes; early Tudor Renaissance drama; the development of the Elizabethan theater; the Stuart dramatists.

English 515. (Formerly English 52. English Criticism. **Three hours.**

A study of the development of English criticism from its beginnings to the end of the nineteenth century. Foreign influences in English criticism; changing conceptions of the criteria of criticism; the great critics and their works.

English 565. (Formerly English 50 and 51.) Problems in High School English. **Three hours.**

A course for graduate students who wish to work on individual problems under the direction of an instructor. Much reading and research are done. Various problems are analyzed and discussed. Many references are used. Special papers are prepared.

FOREIGN LANGUAGES

A student may take an area in Foreign Languages by earning a total of at least 48 semester hours in two different languages. It is recommended that, where feasible, additional hours be taken in one of the languages to total thirty hours. At least 24 semester hours must be taken in each language. A recommended curriculum follows:

First emphasis in Spanish—with right of teaching certificate
Second emphasis in French—with right of teaching certificate

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
French 101	3	French 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
Spanish 201	3	Spanish 202	3
	19		19

Second Year

English 211	3	Education 202	3
French 201	3	English 212	3
History 246	3	French 202	3
Military Science 201 (Men) or Elective (Women)	2	History 247	3
		Military Science 202 (Men) or Elective (Women)	2
Psychology 211	3		
Spanish 303	3	Spanish 304	3
	17		17

Third Year

Art 200	3	Education 316	2
Education 315	2	French 304	3
French 303	3	Music 271	3
Health 201	3	Science 110	3
Science 109	3	Spanish 310 or 410	3
Spanish 309 or 409	3	Elective	3
	17		17

Fourth Year

French 405	3	Education 364	4
French 407	3	Education 463	10
Spanish 405	3	English 463	3
Spanish 407	3		
Elective	4		
	16		17

The student who wishes to major in Foreign Languages without right of certification may follow the curriculum suggested above, substituting other courses for those in Education.

Three hours of mathematics or three hours in other natural sciences may be taken instead of one of the science courses listed in the foreign language curriculum.

FRENCH

A student may major in French by taking a minimum of 24 hours in French.

A student with a major and a minor in other departments may take a minimum of 18 semester hours for a minor in French.

LOWER DIVISION COURSES

French 101. Elementary French. **Three hours.**

Pronunciation; grammar; conversation in French on material studied. One hour per week in language laboratory is required for all beginning students.

French 102. Elementary French. **Three hours.**

Prerequisite: French 101 or one unit of high school French.

Continuation of grammar study begun in French 101 and oral work based on reading material. One hour per week in language laboratory is required for all beginning students.

French 201. Intermediate French. **Three hours.**

Prerequisite: French 101 and 102 or two units of high school French.

Grammar review. Selected prose readings.

French 202. Intermediate French. **Three hours.**

Prerequisite: French 201 or three units of high school French.

Continuation of French 201.

UPPER DIVISION COURSES

French 303. Introduction to French Literature. **Three hours.**

Prerequisite: Two years of college French or the equivalent. Required of all majors. Beginnings through the Eighteenth Century.

French 304. Introduction to French Literature. **Three hours.**

Prerequisite: Two years of college French or the equivalent. Required of all majors. Nineteenth and Twentieth Centuries.

French 309. (Formerly French 301.) French Prose. **Three hours.**

Prerequisite: French 303 and 304.

An intensive study of French prose writings from Beginnings through Eighteenth Century.

French 310. (Formerly French 302.) French Prose. **Three hours.**

Prerequisite: French 303 and 304.

An intensive study of French prose writings of Nineteenth and Twentieth Centuries.

French 395. Independent Work in French. **Three hours.**

Prerequisite: French 303 and 304.

For the exceptional student (French majors only). Permission of Department Head. May be repeated once.

French 405. (Formerly French 404.) Advanced French Grammar and Composition. **Three hours.**

Prerequisite: French 303 and 304.

Required of all French majors.

French 407. Conversation. **Three hours.**

Prerequisite: French 303 and 304.

Required of all French majors.

French 409. (Formerly French 401.) French Drama and Poetry. **Three hours.**

Prerequisite: French 303 and 304.

An intensive study of French drama and poetry from Beginnings through Eighteenth Century.

French 410. (Formerly French 402.) French Drama and Poetry. **Three hours.**

Prerequisite: French 303 and 304.

An intensive study of French drama and poetry of the Nineteenth and Twentieth Centuries.

GERMAN

A student may major in German by taking a minimum of 24 hours in German.

A student with a major and a minor in other departments may take a minimum of 18 semester hours for a minor in German.

LOWER DIVISION COURSES

German 101. Elementary German. **Three hours.**

The essentials of grammar with practice in pronunciation, reading, writing, and some easy conversation. One hour per week in language laboratory is required for all beginning students.

German 102. Elementary German. **Three hours.**

Prerequisite: German 101 or one high school unit of German.

Continuation of German 101 with more advanced exercises in reading, writing and comprehension of spoken German. One hour per week in language laboratory is required for all beginning students.

German 201. Intermediate German. **Three hours.**

Prerequisite: German 102 or permission of instructor.

Continuation of the elementary course on a more advanced level. One hour per week in language laboratory is required for all intermediate students.

German 202a. Intermediate German. **Three hours.**

Prerequisite: German 201 or the equivalent and approval of instructor.

Continuation of German 201. Certain selected texts are read with emphasis upon translation. This course is designed to meet the needs of premedical and predental students.

German 202b. Intermediate German. **Three hours.**

Prerequisite: German 201 or the equivalent and approval of instructor.

Continuation of German 201. Certain selected texts are read with the emphasis upon translation. This course is designed to meet the needs of chemistry and biology majors.

German 202c. Intermediate German. **Three hours.**

Prerequisite: German 201 or the equivalent and approval of instructor.

Continuation of German 201 with emphasis on vocabulary building and conversation. Reading selections from German prose, memorization of poems, newspaper and magazine articles.

UPPER DIVISION COURSES

German 303. Survey of German Literature. **Three hours.**

Prerequisite: German 202 or the equivalent and the approval of the instructor.

Introduction to Classical and Nineteenth Century German literature. The development of reading facility and vocabulary. Reading from the less difficult works of authors of this period.

German 304. Survey of German Literature. **Three hours.**

Prerequisite: German 303 or equivalent and approval of the instructor.

Introduction to Modern German of Hauptmann, Mann, Schnitzler, and others.

German 395. Independent Work in German. **Three hours.**

Prerequisite: Two years of college German or the equivalent and the consent of the department head.

For majors only. May be repeated once.

German 405. Advanced German Grammar and Composition. **Three hours.**

Prerequisite: 18 hours of college German or the equivalent and approval of the instructor.

A study of the finer points of German grammar, morphology and syntax. Written and oral reports on assigned reading outside of classroom.

German 407. Advanced Conversation. **Three hours.**

Prerequisite: 21 hours of college German and approval of the instructor.

A study of intonation and elocution in German. Five minute speeches in German will be prepared for each recitation. Discussions of texts of contemporary German authors.

LATIN

A student may major in Latin by taking a minimum of 24 hours in Latin.

A student with a major and a minor in other departments may take 18 semester hours for a minor in Latin.

LOWER DIVISION COURSES

Latin 101. (Formerly Latin 115 and 10.) Elementary Latin. **Three hours.**

Pronunciation; declension of nouns, adjectives, and pronouns; indicatives; infinitives; simple uses of subjunctive verbs; acquisition of the fundamental principles of the language; ability to read simple Latin prose dealing with Roman home life, mythology, and Roman history.

Latin 102. (Formerly Latin 116 and 11.) Elementary Latin. **Three hours.**

Prerequisite: One unit of high school Latin or Latin 101.

Caesar and a wide range of authors of equal difficulty; vocabulary; inflection, syntax, and their application to English; collateral reading on Roman history and society; training in the understanding of Latin in the Latin order.

Latin 201. (Formerly Latin 12.) Selections from Cicero and Ovid. **Three hours.**

Prerequisite: Two units of high school Latin or Latin 102.

Selections from the works of Cicero, Ovid, Pliny, and others; continued emphasis on mastery of vocabulary and syntax; emphasis on the relation of Latin to English; comparison of the government of the Roman Republic to that of democracies of the present day.

Latin 202. (Formerly Latin 205 and 13.) Selections from Vergil's Aeneid. **Three hours.**

Prerequisite: Two or three units of high school Latin or Latin 201.

Selections from Aeneid of Vergil; study of the Augustan age; study of metrical form and structure of the poem; continued emphasis on Latin inflection and constructions.

UPPER DIVISION COURSES

(Open primarily to Junior, Senior, and Graduate Students)

Latin 301. (Formerly Latin 15.) Selections from Livy. **Three hours.**

Prerequisite: Three units of high school Latin or the equivalent.

Survey of Roman history from the foundation of Rome to the close of the second Punic War; assigned readings from such historians as Mommsen, Heitland, and others; comparative study of Rome and Carthage; critical study of Livy's style.

Latin 302. (Formerly Latin 16.) Selections from Horace. **Three hours.**

Prerequisite: Three units of high school Latin or the equivalent.

Selected odes, epodes, and satires from Horace; study of the Augustan age from both a literary and political point of view; study of Horace's philosophy; various meters employed by Horace.

Latin 303. (Formerly Latin 22.) The Writing of Latin Prose. **Three hours.**

Prerequisite: Latin 301 or the equivalent.

Selections from the text, "Arnold's Latin Prose"; review of syntax, sight reading.

Latin 304. (Formerly Latin 23.) The Latin Dramatists. **Three hours.**

Prerequisite: Latin 301 or the equivalent.

Dramas of Plautus, Terence, and Seneca; two plays of Plautus for intensive study; rapid reading of other representative plays.

Latin 395. Independent Work in Latin. **Three hours.**

Prerequisite: Two years of college Latin or the equivalent and the consent of the department head.

For majors only. May be repeated once.

Latin 401. (Formerly Latin 41.) Latin Prose of the Silver Age. **Three hours.**

Prerequisite: Latin 302 or the equivalent.

Letters of Pliny the Younger; selections from the writings of Tacitus.

Latin 402. (Formerly Latin 32.) Satire and Epigram. **Three hours.**

Selected satires of Juvenal; selected epigrams of Martial; development of satire in Latin literature with assignments from Horace; satire in English; epigram as a literary expression.

Latin 403. (Formerly Latin 31.) Latin Literature of the Early Empire. **Three hours.**

Prerequisite: Latin 302 or the equivalent.

The Oxford University Press text—selections compiled by A. C. B. Brown. The selections form a connected and contemporaneous discussion of politics, education, literature, philosophy, social types, and town and country life.

Latin 404. (Formerly Latin 30.) Literature of the Late Republic. **Three hours.**

Prerequisite: Latin 302 or the equivalent.

Selections from the works of Caesar, Sallust, Nepos, and Cicero with emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day; selections from works of poets of this age with emphasis on the works of Catullus and Lucretius.

Latin 405. (Formerly Latin 42.) Roman Private Life. **Three hours.**

Lectures, discussions, and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town and country life.

RUSSIAN

A student may major in Russian by taking a minimum of 24 hours in Russian.

A student with a major and a minor in other departments may take a minimum of 18 semester hours for a minor in Russian.

LOWER DIVISION COURSES

Russian 101. Elementary Russian. **Three hours.**

Elements of the language studied through grammar, pattern practice, drills, reading, and conversation. In addition to the three hours spent in class each student is required to work a minimum of one hour per week in the language laboratory.

Russian 102. Elementary Russian. **Three hours.**

Prerequisite: Russian 101 or equivalent and the approval of the instructor.

Continuation of Russian 101. Grammar and required reading of Russian authors in translation; required laboratory attendance.

Russian 201a. Intermediate Russian. **Three hours.**

Prerequisite: Six hours of college Russian or equivalent and the approval of the instructor.

For majors and minors in Russian. Continuation of Russian grammar, with emphasis on vocabulary building and conversation. Reading selections from Russian prose, poetry, and politics (newspapers and magazines). Oral reports and discussion of texts. Laboratory one hour per week.

Russian 201b. Intermediate Russian. **Three hours.**

Prerequisite: Six hours of college Russian or equivalent and the approval of the instructor.

For majors in a field that requires 12 hours of foreign language.

Continuation of grammar, with emphasis on translation of scientific materials. Laboratory one hour per week.

Russian 202a. Intermediate Russian. **Three hours.**

Prerequisite: Nine hours of college Russian or equivalent and approval of the instructor.

Continuation of Russian 201a. Laboratory one hour per week.

Russian 202b. Intermediate Russian. **Three hours.**

Prerequisite: Nine hours of College Russian or equivalent and approval of the instructor.

Continuation of Russian 201b. Laboratory one hour per week.

UPPER DIVISION COURSES

Russian 301. Intermediate Russian. **Two hours.**

Prerequisite: Six hours of College Russian or equivalent and the approval of the instructor.

A course designed to be taken simultaneously with Russian 201a. This class will be limited in size to permit individual attention. One hour laboratory per week.

Russian 302. Intermediate Russian. **Two hours.**

Prerequisite: Nine hours of college Russian or equivalent and the approval of the instructor.

A course designed to be taken simultaneously with Russian 202a. The course will put special stress on pronunciation and comprehension of spoken Russian. One hour laboratory per week.

Russian 303. Survey of Russian Literature. **Three hours.**

Prerequisite: Twelve hours of college Russian or equivalent and the approval of the instructor.

Continuation of lower courses on a more advanced level. Selected readings from Pushkin, Gogol, Turgenev, Lermontov, Chekhov and others. Assigned readings in English on Russian history, culture, and civilization. One hour laboratory per week.

Russian 304. Survey of Russian Literature. **Three hours.**

Prerequisite: Fifteen hours of college Russian or the equivalent and the approval of the instructor.

Readings from the time of Tolstoy and Dostoevsky to the present. Laboratory required.

Russian 395. Independent Work in Russian. **Three hours.**

Prerequisite: Two years of college Russian or the equivalent and the consent of the department head.

For majors only. May be repeated once.

Russian 405. Advanced Grammar and Composition. **Three hours.**

Prerequisite: Eighteen hours of college Russian or the equivalent and the approval of the instructor.

Morphology and syntax of Russian grammar. Study of composition and stylistics. Laboratory required.

Russian 407. Advanced Conversation and Composition. **Three hours.**

Prerequisite: Twenty-one hours of college Russian or the equivalent and the approval of the instructor.

Reading and discussion of texts taken from classical and Soviet literature as well as from current magazines and newspapers. Individual written and oral reports on assigned reading materials. Laboratory required.

SPANISH

A student may major in Spanish by taking a minimum of 24 hours in Spanish.

A student with a major and a minor in other departments may take 18 semester hours for a minor in Spanish.

LOWER DIVISION COURSES

Spanish 101. Elementary Spanish. **Three hours.**

Grammar; pronunciation; reading of easy Spanish. One hour per week in language laboratory.

Spanish 102. Elementary Spanish. **Three hours.**

Prerequisite: Spanish 101 or one unit of high school Spanish.

A continuation of Spanish 101.

Spanish 201. Intermediate Spanish. **Three hours.**

Prerequisite: Spanish 101 and 102, or two units of high school Spanish.

Review of grammar. Selected materials about Spain and Latin America. Representative short stories of authors throughout the world using the Spanish medium.

Spanish 202. Intermediate Spanish. **Three hours.**

Prerequisite: Spanish 201 or three units of high school Spanish.

Continuation of Spanish 201.

UPPER DIVISION COURSES

Spanish 303. Introduction to Spanish Literature. **Three hours.**

Prerequisite: Two years of college Spanish or the equivalent.

Beginnings through the Eighteenth Century. Required for all Spanish majors.

Spanish 304. Introduction to Spanish Literature. **Three hours.**

Prerequisite: Two years of college Spanish or the equivalent.

Nineteenth and Twentieth Centuries. Required for all Spanish majors.

Spanish 309. (Formerly Spanish 301.) Spanish Prose. **Three hours.**

Prerequisite: Spanish 303 and 304.

An intensive study of Spanish prose writings from Beginnings through Eighteenth Century.

Spanish 310. (Formerly Spanish 302.) Spanish Prose. **Three hours.**

Prerequisite: Spanish 303 and 304.

An intensive study of Spanish prose writings of the Nineteenth and Twentieth Centuries.

Spanish 395. Independent Work in Spanish. **Three hours.**

Prerequisite: Spanish 303 and 304.

For the exceptional student (Spanish major only). Permission of Department Head. May be repeated once.

Spanish 405. Advanced Grammar and Composition. **Three hours.**

Prerequisite: Spanish 303 and 304.

Required for all Spanish majors.

Spanish 407. Conversation. **Three hours.**

Prerequisite: Spanish 303 and 304.

Required for all Spanish majors.

Spanish 409. (Formerly Spanish 401.) Spanish Drama and Poetry. **Three hours.**

Prerequisite: Spanish 303 and 304.

An intensive study of Spanish drama and poetry from Beginnings through Eighteenth Century.

Spanish 410. (Formerly Spanish 402.) Spanish Drama and Poetry. **Three hours.**

Prerequisite: Spanish 303 and 304.

An intensive study of Spanish drama and poetry of the Nineteenth and Twentieth Centuries.

GEOGRAPHY

(Recommended curriculum for a major in Geography with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Geography 101	3	Geography 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Psychology 211	3
Orientation 100	1	Science 112	3
Elective	4	Orientation 101	1
		Elective	2
	17		18

Second Year

Art 200	3	Education 202	3
English 211	3	English 212	3
Geography 221	3	Geography 202	3
History 246	3	Geography 271	3
Military Science 201 (Men) or Elective (Women)	2	History 247	3
		Military Science 202 (Men) or Elective (Women)	2
Elective	3		
	17		17

Third Year

Education 315	2	Education 316	2
Geography 330	3	Geography 373	3
Geology 200	4	Geography 471	3
Health 201	3	Music 271	3
Elective	6	Elective	5
	18		16

Fourth Year

Geography Elective	3	Education 364	4
Elective	13	Education 463	10
		Social Science 466	3
	16		17

Recommended Curriculum for a Second Major in Geography

A student with a major in another department may take the following courses for a second major in Geography: Geography 101, 221, 271, 372, 373, 471, Geography Elective, six hours.

Recommended Curriculum for a Minor in Geography and Geology (With emphasis in Geography)

A student with a major and a minor in other departments may take the following courses for a minor in Geography and Geology: Geography 101, 221, 271, 372, 373, 471, Geology 108 or 200, and Geology Elective, three hours.

(With emphasis in Geology)

A student with a major and a minor in other departments may take the following courses for a minor in Geography and Geology: Geology 108 or 200, 305, 306, 307, 401, 474, Geography 101, and Geography elective, three hours.

Recommended Curriculum for a Minor in Geology

A student with a major or minor in other departments may take a minor in Geology. For secondary certification the minor must be taken in conjunction with a major or minor in another science or mathematics. Recommended curriculum: Geology 200, 304, 305, 306, 307, 401. Supporting science: Chemistry 111, 112, Mathematics 107, 113, Geography 202.

GEOGRAPHY AND GEOLOGY

(Recommended curriculum for a major in Geography and Geology without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Geography 101	3	Geography 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Orientation 100	1	Elective	5
Elective	4	Orientation 101	1
	17		18

Second Year

Art 200	3	English 212	3
English 211	3	Geography 271 or 202	3
Geography 221	3	Geology 200	4
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Elective	3	Elective	3
	17		18

Third Year

Geography 330	3	Geography 373	3
Geography 372	3	Geography 471	3
Geology 305	3	Geography 473	3
Music 271	3	Health 201	3
Elective	5	Elective	5
	17		17

Fourth Year

Geography 475	3	Elective	17
Geology 307 or 474	3		
Elective	11		
	17		17

EARTH SCIENCE

(Recommended curriculum for a major in Earth Science without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111 or Physics 131..4 or	5	Chemistry 112 or Physics 132	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
	17 or 18		18

Second Year

Chemistry 111 or Physics 131..4 or	5	Chemistry 112 or Physics 132	5
English 211	3	English 212	3
Geology 200	4	Geology 305	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
	16 or 17		16

Third Year

Biological Science	3	Geography 202	3
Geology 304	3	Geology 306	3
Geology 307	3	Mathematics 321	3
Health 201	3	Psychology 211	3
*Elective in Humanities	3	*Elective in Humanities	3
Elective	3	Elective	3
	18		18

Fourth Year

Geology 401	3	Elective	16
Elective	13		
	16		16

* Restrictive elective to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, Music 271, Music 371, Music 372.

Recommended Curriculum for a Minor in Earth Science

(With or Without right of teaching certificate)

The following courses are required for a minor in Earth Science: Geography 202; Mathematics 321; twelve hours of Geology, including one course in field geology. Supporting courses: Three courses in Chemistry and Physics; Mathematics 107; Mathematics 113. For secondary certification the minor must be taken in conjunction with a major or minor in another science or mathematics.

EARTH SCIENCE

(Recommended curriculum for a second major in Earth Science with right of teaching certificate. A first major must be selected from one of the sciences or mathematics.)

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111 or Physics 131	4 or 5	Chemistry 112 or Physics 132	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
	17 or 18		18

Second Year

Chemistry 111 or Physics 131	4 or 5	Chemistry 112 or Physics 132	5
English 211	3	Education 202	3
Geology 200	4	English 212	3
History 246	3	Geology 305	3
Military Science 201 (Men) or Elective (Women)	2	History 247	3
		Military Science 202 (Men) or Elective (Women)	2
	16 or 17		19

Third Year

Geography 202	3	Education 315	2
Geology 304	3	Geology 306	3
Psychology 211	3	Geology Elective	3
Biological Science	3	Health 201	3
Major	5 or 6	*Humanities Elective	3
		Major	5
	17 or 18		19

Fourth Year

Education 316	2	Education 364	4
Geology 307 or Geology Elective	3	Education 463	10
*Humanities Elective	3	Science 410	3
Mathematics 321	3		
Major	5 or 6		
	16 or 17		17

* Humanities elective to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, Music 271, Music 371, Music 372.

GEOGRAPHY AND GEOLOGICAL SCIENCES
GEOGRAPHY

LOWER DIVISION COURSES

Geography 101. (Formerly Geography 10.) Principles of Geography: Elements and Factors. **Three hours.**

The field of modern geography; earth as a member of the solar system; earth's form and movements; geographical elements; elements of weather; climates of earth; the biotic factors; the psysiographic factors; edaphic and pedalogic factors; the mineral factors; the hydrographic factors the spatial factors; the social factors; the geographic unit; geographic tools; a brief history of the changing aspects of geography.

Geography 102. Principles of Geography: Regions and Societies of the World. **Three hours.**

The nature of regional geography; regions of the continents; geographic patterns of mankind; population problems; man and his environment; human development of races, religions, governments, cultures, industries, institutions, occupations and activities; geography of cities; urban and rural groups; problems of today and tomorrow.

Geography 202. (Formerly Geography 20.) Climatology. **Three hours.**

Weather and weather observation; elements of climate; climate regions of the world—a study of climate as affected by the physical factors of sun, mountains, land and water; changes in temperature, pressure, winds—direction and force; humidity; cloud phenomena, precipitation, and the major types of storms; forecasting; the climatic regions of the world; weather conditions and their relation to human activities.

Geography 221. (Formerly Geography 21.) Economic Geography of the Industries. **Three hours.**

The more important agricultural products: cereals, starch foods; forage crops; vegetable crops; fruit crops; wine industries; sugar; vegetable oils; condiments and tobacco; vegetable fibers; non-food vegetables; the animal food stuffs; animal fibers; furs, skins, the mining industries; manufacturing; aluminum; automobile; copper; chemical; textiles; leather; iron and steel; paint; petroleum; rubber; etc.; trade routes; inland North American and international trade routes; world trade centers.

Geography 271. (Formerly Geography 22.) Geography of Anglo-American. **Three hours.**

Prerequisite: Georgraphy 101 or 102.

This course is a detailed study of the Conterminous United States, Canada, and Alaska; structure and physiography; climate; the geographic regions of these three areas, such as the Spring Wheat Region, the Coasts of Newfoundland and Labrador, the North Pacific Coast and Mountains, the Yukon Valley, the Cotton Belt, the Lower Region, Central California. etc.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Geography 300. (Formerly Geography 30.) Geography of the South. **Two hours.**

Prerequisite: Geography 101 or 102.

The South, yesterday and today; the advancing South; the physical landscape; the cultural landscape; the major regions; the people of the South; the races and their distribution and problems; transportation facilities; agriculture, its development, its regions, its problems, and possibilities; power resources; mineral wealth; forest resources; manufacturing and industries; comparison of rural and urban communities of the South; the South's future.

Geography 330. (Formerly Geography 23 and 230.) World Democracy and Geopolitics. **Three hours.**

Geopolitics; the ideological conflict; backgrounds of nationalism; the global war and strategy; social factors; economic factors; political factors; physical factors; religion and war; educational impacts; cultural factors; health and physical fitness; land and ocean warfare; military factors; diplomacy and war; after war, what?

Geography 372. (Formerly Geography 32.) Geography of Europe. **Three hours.**

Prerequisite: Geography 101 or 102.

The general geographic setting of Europe as a whole; the physiography, climate, economic and political geography of each of the major countries; European trade and commerce; the geographic advantages and handicaps of the various European countries that have resulted from the changes in boundaries that followed the world Wars.

Geography 373. (Formerly Geography 33.) Geography of Latin America. **Three hours.**

Prerequisite: Geography 101 or 102.

International importance of Latin America; growing interest of the United States in Latin America; historical geography of discovery, settlement and development; Caribbean resources; the Panama Canal; South America in world trade; population distribution; transportation facilities; climatic and physiographic regions; economic geography of the Pampas, the Amazon Basin, Central Mexican Plateau; the Llanos, Andean Highlands.

Geography 471. (Formerly Geography 40.) Geography of World Problems. **Three hours.**

Prerequisite: Six hours of geography.

Geography and the evolution of nations; the expansion of Europe; European influence in world affairs; economic resources; the British Empire and its many problems—India, Egypt, Ireland, South Africa; geography and problems of major nations of the Orient; Islamism; Russia, past and present; Europe in Africa; the problems of the Far East.

Geography 473. (Formerly Geography 41.) Geography of Asia. **Three hours.**

Prerequisite: Geography 101 or 102.

The structure of Asia; the physiography of Asia; the climates of Asia; the vegetation of Asia; the population of Asia; the exploration and exploitation of Asiatic countries by European nations; Asia's position in the world; the agricultural resources of Asia; summary of the economic resources of Asia; Turkey; Arab Asia; the Iranian Plateau; India; Burma; Ceylon; Southeastern Asia; the East Indies; China; Japan; Asiatic Russia; growing interest of the United States in Asia; the geographic advantages and disadvantages of the continent.

Geography 475. (Formerly Geography 43.) Geography of Africa. **Three hours.**

Prerequisite: Geography 101 or 102.

Structure; physiography; climate; vegetation; population; exploration; exploitation; position in world affairs; agricultural and economic resources; transportation; climatic and physiographic regions; foreign trade and foreign interests; comparisons and contrasts with other continents; the geographic advantages and disadvantages; changes resulting from the World Wars and post-war conditions; present-day problems and their geographic background.

Geography 476. Australia and Oceania. **Three hours.**

Prerequisite: Geography 101 or 102.

Physiography; climates; populations; economic and industrial activities; political relationships and problems; native and European cultures of the Pacific World; the locational factors of this area in peace and war.

Geography 477. (Formerly Geography 44.) Conservation of Natural Resources. **Three hours.**

History of the conservation movement; the forest resources; soil depletion and restoration; the land resources; the fertilizer resources; water origin and supply; water power; irrigation and reclamation; navigation; the mineral resources; the mineral fuels; coal, petroleum, natural gas; the metallic resources: iron, copper, lead, gold, zinc, aluminum, silver, uranium and radium; the human resources; agricultural outlook.

GRADUATE DIVISION COURSES

Geography 500. Historical Geography. **Three hours.**

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

The geography of the world and the United States in the past; the relations between earth's conditions and resources on the one hand, and the historical development of nations on the other; the adjustments of nations and peoples to varied environments; the evolution of the environmental relationships of the people in selected areas of the world; evolutionary geography.

Geography 501. Geography in Education. **Three hours.**

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

A survey of geography in the present day school systems of the world from the elementary school to the university; examination and comparison of courses of study; objectives; outlines; offerings and problems; evaluation of departments; geographic literature; equipment; books; magazines; and other materials; the place of geography in the service of the nations.

Geography 502. Urban Geography. **Three hours.**

Prerequisite: Twelve hours of Social Science or six hours of Geography.

A survey of the rise of urbanism throughout the world; an intensive study of the problems of the cities of America with all their growing pains; megalolopis; metropolitan centers; municipal problems; shopping centers; planning and replanning of cities; rehabilitation developments; community housing; the location and size of cities; the hinterland; the major characteristics of cities.

Geography 507. World Regional Geography. **Three hours.**

Prerequisite: Departmental permission.

A study of the major culture regions of the world with emphasis on areal relationships; the processes which shape and are responsible for the areal distribution of cultural landscape features; recognition and appreciation of the personality of the major world cultural regions; and the concepts associated with the structure and continual change of the culture regions.

Geography 508. Physical Geography. **Three hours.**

Prerequisite: Departmental permission.

A study of the forces and processes which modify the landscape; stress is placed on the integral functional relationships of these various phenomena which collectively shape our physical world; heat budget, water budget, landform classification, edaphic factors, and botanical associations.

Geography 509. Geography Seminar. **Two hours.**

Prerequisite: Departmental permission.

Individual study of special problems in geography.

Geography 510. Geography Seminar. **Two hours.**

Prerequisite: Departmental permission.

Continuation of Geography 509.

Geography 511. Geography Seminar. **Two hours.**

Prerequisite: Departmental permission.

Continuation of Geography 510.

GEOLOGY

LOWER DIVISION COURSES

Geology 108. Principles of Geology. **Three hours.**

A course in general geology including the study of common minerals and rocks, geological processes, and a brief discussion of historical geology. This course is designed primarily for non-science majors. Two lecture and two laboratory hours. (Credit is not given for both Geology 108 and 200.)

Geology 200. (Formerly Geology 301.) Elementary Physical Geology. **Four hours.**

An introductory course in geology. Elementary map interpretation and study of various phases of geology such as weathering, erosion, structure, vulcanism, and mountain building; introduction to mineral and rock classification. Includes one field trip. Three lecture and two laboratory hours.

UPPER DIVISION COURSES

Geology 304. Field Geology. **Three hours.**

Prerequisite: Geology 108 or 200.

An introduction to field methods involving the identification and tracing of formations; geologic mapping; and fossil study. One lecture and four hours of field work.

Geology 305. Historical Geology. **Three hours.**

Prerequisite: Geology 108 or 200.

This course deals primarily with the history of the earth and involves certain aspects of astronomy, anthropology, and biology in addition to geology. Elementary laboratory exercises and lecture material which treats the origin of the earth and mountains, history and origin of the North American continent, the geologic time table, evolution and classification of plants and animals with laboratory recognition of the major groups of plants and animals. Two lecture and two laboratory hours.

Geology 306. Geomorphology. **Three hours.**

Branch of science that deals with the surface features of the globe. their form, nature, origin, and development, and the changes they are undergoing. Designed to introduce geology to the teacher with emphasis on current geologic interests and findings. Some elementary map interpretation of landforms. Two lecture and two laboratory hours.

Geology 307. Economic Geology. **Three hours.**

Prerequisite: Geology 108 or 200.

The application of geology to mineral materials. A summary of modern knowledge about where and how our valuable mineral resources are formed by nature. Non-geological background material to give the beginner an appreciation of minerals (Metallic, non-metallic, and fuels) and their importance to mankind. Two lecture and two laboratory hours.

Geology 309. Invertebrate Paleontology. **Three hours.**

Prerequisite: Geology 305.

The classification and morphology of fossil invertebrates. The anatomy, structure of exoskeleton and endoskeleton, nomenclature, evolution, ecology, and geologic history of fossil invertebrates including protozoa, porifera, coelenterata, vermes, echinodermata, bryozoa, brachiopoda, mollusca, and anthropoda. Methods of fossilization and preservation. Observations and collections will be made in the field. Two lecture and two laboratory hours.

Geology 310. Mineralogy. **Three hours.**

Prerequisite: Geology 108 or 200.

A systematic study of minerals with special emphasis on crystallography, atomic structure, and mineral and rock associations. The identification of minerals by physical properties, blowpipe analysis. Work with the contact goniometer, crystal blocks, crystal drawing, and field trips. Two lecture and two laboratory hours.

Geology 311. Hydrology and Hydrography. **Three hours.**

Prerequisite: Geology 108 or 200.

The constitution of water, physical properties, chemical characteristics, distribution, circulation, the hydrologic cycle, snow, ice, evapotranspiration, photosynthesis. Occurrence of water, effects of geology and topography on supply, physical and chemical changes produced by water on and in the earth, work done by water: erosion, transportation, deposition, runoff, underground water, mineral deposition in fractures, pores and the formation of minerals in the sea, soil moisture, lakes, streams, glaciers. Utilization of water by man, contamination and treatment, radioactivity, domestic uses, industrial uses, hydroelectric power, reclamation, irrigation, water supply engineering. Two lecture and two laboratory hours.

Geology 401. Elementary Structural Geology. **Three hours.**

Prerequisite: Geology 200 and Mathematics 113.

An introductory course in structural geology. A detailed analysis is made of earth structure in reference to genetic classification and the relationship to the earth's mineral wealth. Two lecture and two laboratory hours.

Geology 474. Geography and Geology of Kentucky. **Three hours.**

Kentucky, its regions, climate, waters, soils, agriculture, occupations, manufacturing, cities, and natural resources. Regional geology and specific treatment of cave areas, natural bridges, Cumberland Falls, Cumberland Gap, Lake Cumberlnd, Kentucky Lake, Big Bone Lick, and river features. The future of Kentucky and its geographic and geologic associations. Three lecture hours.

HEALTH

Recommended Curriculum for a Minor in Health Education

The following courses make up the curriculum for the Health Education minor: Health 202, 315, 364, 365, 366, 410, 425, and 480.

LOWER DIVISION COURSES

Health 201. (Formerly Health 100 and 201.) Personal and Community Health. **Three hours.**

A basic health content course with the emphasis on personal living habits and how they are affected by group living.

Health 202. (Formerly Health 20.) Safety and First Aid. **Two hours.**

This course is designed to prepare the student to meet emergencies in the school room, on the playground, on the athletic field, and in everyday life. The Standard Red Cross Certificate is awarded to those students completing the requirements of this course. Safety instruction is also included.

UPPER DIVISION COURSES

Health 315. Community Health Problems. **Two hours.**

This course emphasizes the place of the school in solving community health problems. Special consideration is given to maintaining safe and sanitary water and milk supplies, restaurant sanitation, and sewage disposal.

Health 364. The Organization of the School Health Program. **Two hours.**

A detailed study of the three phases of the school health program: health services, healthful school living, and health instruction. Consideration is given to coordinating school and community efforts in maintaining child health.

Health 365. Elementary School Health Education. **Two hours.**

A study of the characteristics and health needs of elementary school students. A health education curriculum for grades 1-6 is developed. This curriculum includes a detailed study in theory, content, resources, evaluation, and presentation in health education.

Health 366. Secondary School Health Education. **Two hours.**

A study of the characteristics and health needs of secondary school students. A health education curriculum for grades 7-12 is developed. This curriculum includes a detailed study in theory, content, resources, evaluation, and presentation in health education.

Health 410. Care and Prevention of Athletic Injuries. **Two hours.**

Problems of athletic injuries as they concern the coach. Discussion, demonstration, and practical experiences in the care and prevention of athletic injuries.

Health 425. Safety Education. **Three hours.**

Designed to present facts and information essential for a better understanding of the cost, in money and human suffering, of accidents in home, industry, school, traffic, farms, and during recreational activity. Included is the establishment of personal activities and practices which may reduce accidents.

Health 480. Mental Health. **Three hours.**

Study of human behavior; the basic needs for positive mental health; personality growth and development; and emotional problems of children and youth.

Health 485. Workshop in Driver Education. **Three hours.**

Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operation, and traffic laws and regulations. Includes introduction to laboratory experiences; the use of psycho-physical testing and the development of driving proficiency.

Health 488. Workshop in School Health Services. **Three hours.**

A study of school health services, and the relationship to the total health and school program. This course includes a detailed study in theory, evaluation techniques, and followup procedures in the health screening program.

Health 497. Health Instruction. **Three hours.**

This course will be sponsored by Eastern in cooperation with the State Department of Health. The purpose will be to study health problems, review health materials, and to plan and develop a curriculum guide for health instruction in grades 1-12.

HISTORY

(Recommended curriculum for a major in History with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	English 102	3
English 101	3	Foreign Language	3
Foreign Language	3	History 246	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
		Social Science 101	3
	16		19

Second Year

Art 200	3	English 212	3
Education 202	3	History 203	3
English 211	3	History 247	3
History 202	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Psychology 211	3
Science 109	3	Science 110	3
	17		17

Third Year

Education 315	2	Education 316	2
Health 201	3	European History Elective	3
European History Elective	3	History 498	3
Elective	9	Music 271	3
		Elective	6
	17		17

Fourth Year

History 448	3	Education 364	4
History 499	3	Education 463	10
History Elective	3	Social Science 466	3
Elective	9		
	18		17

First Major in History

(Without right of teaching certificate)

The student who wishes to major in history, without receiving certification to teach, may follow the curriculum for the first major given above, but must substitute other courses for those in Education and for Social Science 466.

Second Major in History

(With and without teaching certificate)

For a second major in History the student should take the same History courses as those required for the first major.

Minor in History

(With and without teaching certificate)

For a minor in History the student should take the following courses: History 202, 203, 246, 247, and twelve hours of electives in History.

HISTORY

LOWER DIVISION COURSES

History 202. American History to 1877. **Three hours.**

Discovery, exploration and conquest by nations; colonization; colonial wars; alienation of the colonies from England and eventual revolution; establishment of government and development of nationalism; westward movement; Jacksonian democracy and reform; the slavery controversy; Civil War and reconstruction.

History 203. American History since 1877. **Three hours.**

Rise of industrialism; problems of the American farmer; social and cultural advance; the last American frontier; American imperialism; the World Wars; the Progressive movement and the New Deal; America as a great power since World War II.

History 246. History of Western Civilization. **Three hours.**

The emergence of pre-industrial culture; patterns of pre-industrial culture in the Near East, the Mediterranean Basin, and in Europe before the nineteenth century.

History 247. History of Western Civilization. **Three hours.**

The developing culture pattern of the industrial era of the nineteenth and twentieth centuries, with progressively more attention to its world-wide influences and with progressively more illustrative material drawn from the United States.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

History 339. Medieval Civilization. **Three hours.**

Prerequisite: History 246 and History 247.

A survey of Western Christian, Byzantine, and Saracenic cultures from the breakdown of the Roman Empire until the emergencies of the modern national states.

History 340. (Formerly History 30 and 241.) European History from 1300 to 1815. **Three hours.**

Renaissance; Reformation; rise of the national state and royal absolutism; decline of manorialism; rise of capitalism and the merchantile system; the British revolutions of the seventeenth century; international rivalries; the age of reason and enlightened despotism; the French Rvolution and Napoleon.

History 341. (Covers only a portion of former History 341.) English History in the Medieval Era (500-1485). **Three hours.**

Significance of medieval English history; the Roman background; original institutions of the Anglo-Saxons; the struggle for political unity; the Norman conquest; the growth of royal authority; the feudal reaction and the rise of parliament; constitutional developments in late medieval era; the disintegration of medieval institutions.

History 342. (Covers a portion of former History 341.) English History in the Early Modern Era (1485-1783). **Three hours.**

The transition from medievalism; the break from Rome; the Elizabethan Age; Tudor constitutional developments; constitutional issues under the early Stuarts; Civil War and interregnum; the later Stuarts and the Glorious Revolution; origins of the British Empire; England and the Empire through the American Revolution.

History 344. (Formerly History 31.) European History 1815-1914. **Three hours.**

The peace settlement of 1815; liberalism, nationalism and radicalism; the revolutionary movements of 1820-21, 1830-31, 1848-49; the unification of Italy and Germany; Bismarckian diplomacy; the causes of World War I.

History 347. (Formerly History 40.) Recent and Current World History, 1914 to the Present. **Three hours.**

World War I; the peace settlement of 1919; the problems of security, war debts and reparations; the distintegration of the peace settlement; World War II.

History 348. Latin American History. **Three hours.**

The land and people at the time of discovery; exploration and appropriation; colonization and struggle for independence; recent conditions and developments with special emphasis upon relations with the United States.

History 349. (Formerly History 34.) Survey of the Far East. **Three hours.**

This course centers mainly about China and Japan, with the European Nations and America brought in when their policies lead into the area. Some attention is given also to India, Australia and to islands of the Pacific.

History 350. (Formerly covered in part by History 348.) History of Latin America. **Three hours.**

European and Amerindian background; discovery, conquest, and expansion; techniques of government; social and economic institutions to independence.

History 351. (Formerly covered in part by History 348.) History of Latin America. **Three hours.**

Comparative treatment of political, economic, and social institutions of the Latin American republics from attainment of independence to the present.

History 352. (Formerly covered in part by History 348.) Modern and Contemporary Latin America. **Three hours.**

Social, political and economic developments in Latin America since World War II.

History 402. The American Revolution and the Constitution. **Three hours.**

Prerequisite: History 202 or consent of instructor.

Colonial background of Revolution; internal as well as external nature of Revolution; problems associated with Confederation; and events leading up to the American Constitution.

History 403. Jacksonian Democracy. **Three hours.**

Criticism of the concept. Party issues, nationalism, and the importance of the age.

History 404. The Ante-Bellum Period. **Three hours.**

Prerequisite: History 202 or consent of instructor.

Political sectionalism; young nationalism; economic transition; democracy's mind; politics as an art.

History 405. America's Westward Expansion. **Three hours.**

Prerequisite: History 202 and 203, or consent of instructor.

The Colonial frontier; conflicts of Empire; trans-mountain movements; the Ohio-Mississippi valleys; Indian problems; Manifest Destiny; the West and the sectional struggle; the trans-Mississippi frontier of mining, railroads, cattle, and agriculture; West versus East.

History 406. The South in American History. **Three hours.**

Prerequisite: History 202 and 203, or consent of instructor.

Colonial developments in society and politics; the origins of sectional consciousness; the institutions of Negro slavery and the plantation system; southern ideas and ideals; the Civil War and Reconstruction; the modern South.

History 407. Civil War and Reconstruction. **Three hours.**

Prerequisite: History 202 or consent of instructor.

The ante-bellum South, the ante-bellum North; anti-slavery agitation, the growth of sectional consciousness, recurrent crises, secession, and war; military operations, internal developments in the North and South; the Confederate collapse; problems of reconstruction; social, political, and economic reconstruction; aftermath.

History 411. (Formerly first part of History 407.) Recent American History (1900-1929). **Three hours.**

Impact of industry and science; the movements of protest and change; America as a world power; World War I; big business, labor and agriculture in the 1920's; politics and prosperity.

History 412. (Formerly last part of History 407.) **Recent American History** (1929 to Present). **Three hours.**

The Great Depression; the Hoover administration and the New Deal; social, economic and political changes in the 1930's; isolationism and World War II; revival of big business; America's new responsibilities in the world.

History 420. The Negro in American History. **Three hours.**

Prerequisite: History 202, 203, 246 and 247.

The African heritage; middle passage; the peculiar institution; the Negro and the Civil War; reconstruction; the strange career of Jim Crow; modern emancipation; black nationalism.

History 430. American Social and Intellectual History to 1850. **Three hours.**

Prerequisite: History 202 or consent of instructor.

European influences; the colonial mind; revolutionary attitudes; New England's leadership; the movement of protest and reform; the rise of a native literature.

History 431. American Social and Intellectual History since 1850. **Three hours.**

Prerequisite: History 203 or consent of instructor.

The Civil War; Protestantism and Capitalism; Social Darwinism; the literature of naturalism and realism; the twentieth century mind.

History 433. American Diplomatic History. **Three hours.**

Prerequisite: History 202 and 203.

The history of American foreign relations from 1776 to the present with special emphasis on the development of major trends such as isolationism, imperialism, and internationalism.

History 440. Renaissance and Reformation. **Three hours.**

This course will deal with the transformation of European civilization from the medieval to the modern period, 1350-1650. Special emphasis will be placed upon changes in the political, religious, and economic institutions of Europe and the reflection of these changes in intellectual thought.

History 441. The Age of the Enlightenment. **Three hours.**

European intellectual history, 1650-1789; the scientific revolution, the Cartesian and Newtonian schools; the Enlightenment as a European phenomenon; special emphasis on the eighteenth century as an age of political and social criticism.

History 442. The French Revolution and Napoleon, 1789-1815. **Three hours.**

Background for the French Revolution; analysis of the various stages of the Revolution and their reflection in foreign policy; the establishment of the First Empire and the reasons for its collapse; the effects of the French Revolution upon France and Europe; 1815 as a watershed of European history.

History 444. European Social and Intellectual History since 1815. **Three hours.**

A study of European civilization in the 19th and 20th centuries with special emphasis upon institutions, ideas, and cultural forms distinguishing the period.

History 445. Europe from 1815 to 1870. **Three hours.**

The Congress of Vienna and reaction following the Napoleonic wars; the revolutions of 1820, 1830, and 1848; liberalism, realism, and nationalism; the growth of science and technology.

History 446. Europe from 1870 to 1914. **Three hours.**

A survey of the rapidly growing European society, economy, and world-wide impact in the period of uneasy European peace prior to the First World War; industrialism; imperialism; the diplomatic background of World War 1.

History 448. (Formerly History 55a and 448a) Topics in History and Social Science. **Three hours.**

(Required of and open only to students majoring in history or social science.)

Prerequisites: History 202, 203, 246, 247, 340, and 344.

This course is designed to introduce students to the elements of research in social science and history and to develop facility of expresion in writing. Selection of topics for study will be made on the basis of the previous training and special interests of the students participating. Topics may be selected in American or European history or in economics, government, or sociology.

History 450. (Covers a portion of former History 342.) The Emergence of Victorian Britain. (1783-1867). **Three hours.**

Economic and intellectual backgrounds of the 19th century; the French Revolution and the Napoleonic threat; reaction and reform after 1815; the Victorian compromise in politics; common denominators of Victorian thought; origins of the Commonwealth; the age of Palmerston in foreign affairs.

History 451. (Covers a portion of former History 342.) Britain and the Empire in Adversity (1867-1965). **Three hours.**

Characteristics of a new era; the Reform Bill of 1867; economic and intellectual trends in the late 19th century; the decline of liberalism in politics; the revival of imperialism; coming of World War I; economic and social dislocations; emergence of the Commonwealth; political futility at home and abroad; the impact of World War II; the Conservative-Labor contention; the liquidation of Empire; Britain's role in the "cold war."

History 461. (Formerly History 46.) Kentucky History. **Three hours.**

General, social, economic, and political history of Kentucky; her influence in the development of American democracy; her periods of leadership in the nation; her educational system; Kentucky's great men and women; historical sources of Kentucky.

History 485. Recent Interpretations of United States History since 1850. **Three hours.**

Prerequisite: Permission of head of department.

This is a seminar course which will discuss new interpretations of United States history covering the period after 1877.

History 498. The Ideological Foundations of Western Civilization. **Three hours.**

(Required of all undergraduate and graduate students majoring or minoring in history or social science.)

Introduction to the basic concepts in the ideological heritage of the Western World from the end of the medieval age through the Enlightenment. Reading materials will consist largely of selections from the great books and documents in religion, science, economics, political theory, and philosophy.

History 499. The Ideological Foundations of Western Civilization. **Three hours.**

(Required of all undergraduate and graduate students majoring or minoring in history or social science.)

Introduction to the basic concepts in the ideological heritage of the Western World from the Enlightenment to the present. Reading materials will consist largely of selections from the great books and documents in religion, science, economics, political theory, and philosophy.

GRADUATE DIVISION COURSES

History 504. (Formerly History 449.) History as a Social Science. **Three hours.**

The scientific approach to social problems and their historical interpretation; an analysis of the economic, social, intellectual, and political backgrounds of contemporary civilization.

History 505. Problems in American History. **Three hours.**

Prerequisite: Consent of Instructor.

An examination of some of the basic controversial aspects of the development of the American people and their culture. Relevant areas might include Protestantism, capitalism, agrarianism, sectionalism, liberalism, internationalism.

History 506. Topics in Nineteenth Century American History. **Three hours.**

A course using a seminar approach to major topics of American history from 1800 to 1900. Examples of possible topics: The triumph of Jeffersonian democracy and agrarianism; economic aspects of sectionalism; anti-slavery agitation as a cause of the Civil War; opposition to the Lincoln administration in the North during the Civil War; economic effects of the Civil War.

MATHEMATICS

(Recommended curriculum for a major in Mathematics with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	Biological Science	3
Mathematics 107	3	English 102	3
Military Science 101 (Men) or		Mathematics 108	2
Elective (Women)	2	Mathematics 113	3
Orientation 100	1	Military Science 102 (Men) or	
Physical Education 115	1	Elective (Women)	2
Social Science 100	3	Orientation 101	1
Elective	3	Physical Education 116	1
		Social Science 101	3
	16		18

Second Year

English 211	3	Education 202	3
Mathematics 232	3	English 212	3
Military Science 201 (Men) or		Mathematics 251	5
Elective (Women)	2	Military Science 202 (Men) or	
Physics 131 or 201	5 or 6	Elective (Women)	2
Psychology 211	3	Physics 132 or 202	5 or 6
Elective	2		
	18 or 19		18 or 19

Third Year

Education 315	2	Education 316	2
Health 201	3	History 247	3
History 246	3	*Mathematics elective	6
Mathematics 352	3	**Restrictive elective	3
**Restrictive Elective	3	Elective	3
Elective	3		
	17		17

Fourth Year

*Mathematics Elective	6	Education 364	4
Elective	10	Education 463	10
		Mathematics 467	3
	16		17

Recommended Curriculum for a Second Major in Mathematics

A student with a first major in some other department may take the following courses for a second major in Mathematics: Mathematics 107, 108, 113, 232, 251, 352, and two courses from the following: Mathematics 333, 334, 408, 409, 453, 454, 455, 456.

Recommended Curriculum for a Minor in Mathematics

A student with a major and a minor in other departments may take the following courses for a minor in Mathematics: Mathematics 107, 108, 113, 232, 251, 352.

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*A minimum of twelve semester hours of Mathematics electives are to be chosen so that at least one course will be taken from each of the following groups:

Mathematics 408 or 409, 333 or 334, 453 or 454.

**Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

MATHEMATICS

(Recommended curriculum for a major in Mathematics without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men) or Elective (Women)	2	Mathematics 113	3
Physical Education 115	1	Military Science 102 (Men) or Elective (Women)	2
Social Science 100	3	Physical Education 116	1
Orientation 100	1	Social Science 101	3
Elective	3	Elective	2
		Orientation 101	1
	16		17

Second Year

English 211	3	English 212	3
Mathematics 232	3	Mathematics 251	5
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Physics 131 or 201	5 or 6	Physics 132 or 202	5 or 6
Biological Science	3	Elective	2
	16 or 17		17 or 18

Third Year

English Elective	3	History 247	3
History 246	3	*Mathematics Elective	3
Mathematics 352	3	**Restrictive Elective	3
**Restrictive Elective	3	Elective	7
Elective	4		
	16		16

Fourth Year

Health 201	3	*Mathematics Elective	6
*Mathematics Elective	6	Elective	10
Elective	7		
	16		16

*A minimum of fifteen semester hours of Mathematics electives are to be chosen by taking Mathematics 408, 333 or 334, 453, and six hours from Mathematics 409, 333 or 334, 454, 455, and 456.

**Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

MATHEMATICS AND ASTRONOMY

LOWER DIVISION COURSES

Mathematics 107. (Formerly Mathematics 10.) College Algebra I. **Three hours.**

Review of high school algebra; exponents and radicals; functions and their graphs; equations and their solutions; systems of linear and quadratic equations; ratio and proportion; progressions.

Mathematics 108. (Formerly Mathematics 11.) College Algebra II. **Two hours.**

Prerequisite: Mathematics 107, or permission of instructor.

Mathematical induction; binomial theorem; theory of equations; permutations; combinations; probability; determinants; partial fractions.

Mathematics 113. (Formerly Mathematics 12.) Trigonometry. **Three hours.**

Prerequisite: Mathematics 107, or permission of instructor.

The trigonometric functions; logarithms; right triangle; radian measure; properties of the trigonometric functions; functions of two angles; the oblique triangle; the inverse trigonometric functions.

Mathematics 201. Understanding Arithmetic. **Three hours.**

This course is for future teachers in the elementary grades. Emphasis is put on meaning rather than upon manipulation as such. The topics covered are number and numerals, sets and numbers, number operations, the fundamental operations, number scales, number structure, fractions, decimals and the real number system

Mathematics 202. Understanding Elementary Mathematics. **Three hours.**

Prerequisite: Mathematics 201.

This course is a continuation of Mathematics 201 with the introduction of the ideas of modern mathematics, elementary logic, geometry, the number concept, extending the number system, numeration, exponents, measurement, functions and graphs.

Mathematics 232. (Formerly Mathematics 21.) Analytic Geometry. **Three hours.**

Prerequisite: Mathematics 108, 113, or permission of instructor.

Rectangular coordinates; fundamental definitions and theorems; functions and graphs; equation of a locus; the line; polynomials; rational fractional functions; transformation of coordinates; the circle, parabola, ellipse and hyperbola; the trigonometric curves; the exponential and logarithmic curves; parametric equations; polar coordinates; solid analytic geometry.

Mathematics 251. (Formerly Mathematics 22 and 23.) Differential Calculus **Five hours.**

Prerequisite: Mathematics 232.

Variables; functions; differentiation; applications of the derivative; successive differentiation; parametric and polar equations and roots; differentials; curvature; theorem of mean value and its application; series; expansions of functions; partial differentiation; integration by elementary forms.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Mathematics 321. (Formerly Mathematics 30.) General Astronomy. **Three hours.**

Development of astronomy as a science; development of the solar system; astronomical instruments; better known facts of astronomy.

Mathematics 333. Introduction to Non-Euclidean Geometry. **Three hours.**
Prerequisite: Mathematics 251 or consent of the instructor.
Finite geometries; foundations of Euclidean geometry with investigations of the tacit assumptions of Euclid; Hilbert's postulates; Euclid's Fifth Postulate; the discovery of Non-Euclidean geometry; hyperbolic plane geometry; elliptic plane geometry; consistency of the Non-Euclidean geometries.

Mathematics 334. Modern College Geometry. **Three hours.**
Prerequisite: High school Geometry and Mathematics 232.
Logical systems and basic laws of reasoning; special topics of axiomatic geometry; Menelaus's and Ceva's theorems; harmonic elements and cross ratio; projective geometry; basic axioms; duality; Desargues's theorem; perspective figures; coordinate projective geometry; transformation theory.

Mathematics 352. (Formerly Mathematics 32.) Integral Calculus. **Three hours.**
Prerequisite: Mathematics 251.
Integration; constant of integration; definite integral; integration as a process of summation; centroids; fluid pressure; other applications and multiple integrals.

Mathematics 395. Descriptive Geometry. **Three hours.**
For course description see Industrial Arts 395.

Mathematics 408. Introduction to Modern Algebra. **Three hours.**
Prerequisite: Mathematics 251 or consent of the instructor.
Some fundamental concepts, sets, mapping, equivalence relations, operations; rings and integral domains, isomorphisms; some properties of the integers; fields with emphasis on construction of the various number systems; groups.

Mathematics 409. Linear Algebra. **Three hours.**
Prerequisite: Mathematics 251 or consent of instructor.
Matrix algebra; vector spaces; systems of linear equations; linear transformations.

Mathematics 453. (Formerly Mathematics 41.) Differential Equations. **Three hours.**
Prerequisite: Mathematics 352.
Differential equations of the first order; applications; singular solutions; linear equations with constant coefficients; miscellaneous methods for solving equations of higher order than the first; integration in series; total differential equations.

Mathematics 454. (Formerly Mathematics 42.) Advanced Calculus. **Three hours.**
Prerequisite: Mathematics 352.
Review of elementary calculus with attention focused on the concepts of function and limit; the real number system; continuity; least upper bounds; nested intervals; continuous functions; Cauchy's generalized law of the mean; indeterminate forms; Taylor's series with remainder; functions of several variables; homogeneous functions; implicit functions; partial differentiation; allied topics.
Emphasis is placed throughout on the fundamental principles and methods of analysis.

Mathematics 455. Theoretical Mechanics. **Three hours.**
Same as Physics 455. May be taken in either the Mathematics or the Physics Department.
Prerequisite: Mathematics 352 and Physics 202.

Mathematics 456. (Also listed as Physics 456.) Vector Analysis and Its Physical Application. **Three hours.**
May be taken either in the Mathematics or Physics Department.
Prerequisites: Mathematics 352 and Physics 202.

Mathematics 467. The Teaching of High School Mathematics. **Three hours.**

Prerequisite: Ten hours of college mathematics or consent of the head of the department.

The history of mathematics; historical background of the mathematics curriculum; new developments in secondary school mathematics; significance for the modern curriculum; recommendations of various groups; some improvement programs for school mathematics; thorough examination of texts and materials; a consideration of some of the newer topics such as sets, bases other than ten, logic, structures; aims and problems of teaching; motivation; techniques of teaching; evaluation; the preparation of the teacher.

GRADUATE DIVISION COURSES

Mathematics 501. Foundations of Elementary School Mathematics. **Three hours.**

A course designed exclusively for elementary school teachers working toward the Master of Arts in Education degree. However, credit may not be earned by those who already have credit for Mathematics 201 and 202.

Counting and numeration; fundamental concepts of the whole, rational and real number systems; variables and conditions; logic; non-metric geometry; measurement; congruence; parallelism; area and volume.

Mathematics 502. Selected Topics in Mathematics for Elementary School Teachers. **Three hours.**

The course is designed to enable students to increase their strengths in mathematics to somewhat greater depth and breadth than that which is recommended for minimum preparation. At the same time, the content is conceived to reflect the spirit of the modern elementary school mathematics programs as exemplified by the various national and local study groups concerned with the improvement of instruction in the field of mathematics at this level.

Mathematics 507. Foundations of Secondary School Mathematics I. **Three hours.**

A course designed exclusively for secondary school teachers of mathematics who are working toward the Master of Arts in Education degree.

Topics include: Number and numeration; fundamental number theory; sets, relations, and functions; algebraic systems; consideration of these topics as they are likely to affect the modern high school mathematics program.

Mathematics 508. Foundations of Secondary School Mathematics II. **Three hours.**

A course designed, in sequence with Mathematics 507, exclusively for secondary school teachers of mathematics who are working toward the Master of Arts in Education degree.

Topics include: History and development of geometry; logic and the nature of proof; foundations of synthetic and analytic Euclidean geometry; discovery of non-Euclidean geometries; vector approaches to the study of geometry; consideration of these topics as they are likely to affect the mathematics program in the modern high school.

MILITARY SCIENCE

The primary mission of the Reserve Officer's Training Corps (ROTC) is to produce junior officers for all components of the United States Army. A vital secondary mission is to impart citizenship training, develop leadership potential and to stimulate and motivate the student for future useful service in behalf of the Nation in whatever profession he chooses. The basic aim is to develop in each student habits of cheerful and appropriate response to constituted authority, loyalty, patriotism, self-discipline, personal bearing and precision.

At the request of this institution, the United States Army established a Reserve Officer's Training Corps (ROTC) Unit at Eastern Kentucky State College in 1936. Initially, the ROTC program offered a commission only in Artillery, without regard to the student's academic background. In 1955, with mutual agreement between the college and the Department of the Army, the program was changed to a General Military Science curriculum which provides instruction in leadership and military fundamentals common to all branches of the Army. Upon graduation a student may now be commissioned in one of fifteen branches consonant with his academic major, his preference, and the requirements of the military service. Those branches are: Armor, Artillery, Infantry, Signal Corps, Engineers, Chemical Corps, Adjutant General's Corps, Finance Corps, Military Police Corps, Ordnance Corps, Quartermaster Corps, Medical Service Corps, Transportation Corps, Army Intelligence, and Army Security.

The Army ROTC program at Eastern Kentucky State College is divided into two courses of two years each. These are the BASIC course normally taken in the freshman and sophomore years, and the ADVANCED course taken in the junior and senior years. Completion of the basic course is a prerequisite for the advanced course. Between the junior and senior years the student attends a six weeks camp at an Army Post where he is given an opportunity to put into practice the military theory learned at Eastern Kentucky State College. Successful completion of the basic and advanced courses and the summer camp is required to be eligible for a commission.

Basic Course—The ROTC basic course of two years duration is compulsory for all able-bodied male students. This course is a college requirement for graduation. Students may be excused from this requirement in rare cases only upon recommenation of the Professor of Military Science after a personal interview, and approval by the President of Eastern Kentucky State College. Once a student is enrolled he must continue in the basic course each semester he is enrolled in college until the basic course has been completed satisfactorily. Students may be excused from formal enrollment in the basic course in the following instances:

(a) If not a citizen of the United States

(b) If under 14 years of age; or if cannot qualify for appointment as Second Lieutenant prior to reaching 28 years of age

(c) If medically unfit to perform General Military Service.

A student who has previous military experience or has completed ROTC training in high school or in another college will, after a conference with the Professor of Military Science, be enrolled in the course for which previous training qualifies him, or be excused from enrollment under certain conditions.

Students transferring to this college after completing part of the basic course elsewhere must continue the course at this college until successful completion. Students transferring to this college who have not been enrolled in the basic course elsewhere will be required to enroll in and complete the basic course if their classification upon enrollment is less than that of a second-semester sophomore. Students transferring with a classification of second-semester sophomore or junior, without previous military training, may qualify for the ROTC advanced course by attendance at a basic training camp during the summer between their sophomore and junior years. In any event, male transfer students must consult with the Professor of Military Science for determination of enrollment.

Advanced Course—The advanced course is offered to those students who have successfully completed the basic course and who have been recommended by the Professor of Military Science and approved by the President of the College. Such recommendations will be limited to those students who have shown special interest and ability during the basic course, who have stated a desire to continue in the advanced course to qualify for a commission in the Regular Army or the Army Reserve, and who achieve satisfactory score on the prescribed standardized qualification test. A student selected will receive retainer pay of forty dollars ($40.00) per month, or approximately $800.00 for the two year course. During the summer following the junior year, students in the advanced course will attend a summer camp of six weeks duration. While attending summer camp, members of the advanced course are paid at the rate of $120.60 per month and are furnished subsistence, housing, uniforms and medical care, and are paid a travel allowance to and from camp. Enrollment in the advanced course will be limited to students who can qualify for appointment as Second Lieutenants prior to reaching 28 years of age. Those who enroll must sign an agreement with the United States Government to complete the advanced course and attend summer camp. Upon successful completion of the advanced course and recommendation by the Professor of Military Science and the President of the College, students may be commissioned as Second Lieutenants in the Army Reserve at the time their degree is conferred. Distinguished Military Students, so designated in their senior year

by the Professor of Military Science for outstanding achievement during the preceding three-year period, have an opportunity to apply for Regular Army Commissions. This opportunity is extended only to those students of high leadership potential and who stand academically in the upper one-third of the advanced course.

Credit—The basic course is presented in two classroom hours and one drill period per week for both Military Science I (freshmen) and Military Science II (sophomores), for which two hours credit are awarded for each semester.

The advanced course is presented in four classroom hours and one drill period per week during the one semester. During the other semester the advanced course is presented in one classroom hour and one drill period per week. However, advanced students must take a three hour subject matter elective substitute course during the spring semester (see advanced course curriculum for Military Science III and IV). The student receives four hours credit each fall semester and one hour credit each spring semester for a total of five hours credit each year in the advanced program. He receives constructive credit, towards meeting advance course requirements, for the three hour subject matter elective substitute course both years. The subject matter elective substitute course may be taken during either semester and need not be limited to the spring semester.

Since the basic course in Military Science is a requirement for a degree, students should confer with their faculty advisor or the Dean of the College to determine the most advantageous use of ROTC credits.

Medical Examinations—Section 44 of the National Defense Act requires that students must be "physically fit to perform military duty, or will be so upon arrival at military age." In order that this law may be carried out, each applicant is required to undergo certain medical examinations as a prerequisite for enrollment and continuance in the Reserve Officer's Training Program.

Applicants for enrollment in the basic course may be examined by any doctor of medicine. Such examinations will be at no expense to the government. Each male student enrolling for the first time at this College should therefore attach to his application for enrollment, or bring with him at time of registration, a report of physical examination performed by a civilian physician.

Examinations for students selected for enrollment in the advanced course will be arranged for by the Professor of Military Science at no cost to the students.

ROTC Extracurricular Activities—

a. Company R, 1st Regiment of the National Society of Pershing Rifles—Membership in the Pershing Rifles Company is open to basic and advanced course students who exhibit outstanding leadership and military ability.

b. The Lieutenant John "Nick" Combs Memorial Company, Association of the United States Army, Eastern Kentucky State College Chapter—Membership in this organization is open to all ROTC students. An outstanding extracurricular social activity presented during the spring semester each year by this organization is the Military Ball. A portion of the fee charged each cadet enrolled in ROTC entitles him to all privileges of the Military Ball.

c. The Eastern Kentucky State College Reserve Officers Training Corps Band, a charter member of the National Reserve Officers Training Corps Band Association—Membership in this organization is open to all ROTC cadets who possess the required abilities. This unit provides music for all ROTC drill activities as well as for selected College functions.

d. Rifle Team—Another extracurricular activity is the rifle team, which is a recognized athletic team at Eastern Kentucky State College.

e. Counterguerrilla Raider Training Unit—This program is a student activity, conducted for the purpose of developing among its members a sense of personal responsibility, military discipline, physical fitness, and the spirit of unselfishness and devotion to duty so essential to a successful military career. Membership is open to ROTC cadets who are second semester freshmen or higher, and to non-ROTC students on campus.

f. Scabbard and Blade—The Scabbard and Blade Company, a member of the National Society of Scabbard and Blade, is open for membership only to senior cadet officers who fully meet high standards of character, leadership, academic achievement, and demonstrated proficiency in Military Science. Nominations for membership are made by the Scabbard and Blade members, subject to approval by the Professor of Military Science and the President of the College. Membership is considered indeed an honor and a cherished reward for outstanding studentship over a three year period.

g. Coed Sponsors—A coed sponsor is selected for each headquarters and company of the brigade. These sponsors wear their own distinctive uniform and hold the rank of their corresponding unit commander. They attend formations and ceremonies with the brigade and are extended the same courtesies as the cadet officers. Selection of sponsors is accomplished by MS IV students during September of each year. The girls selected as sponsors will be the candidates for the honor of Military Ball Queen. The sponsor chosen as Queen of the Military Ball will be given the rank of Cadet Colonel and will serve as the Brigade Sponsor for the next school year.

MILITARY SCIENCE

LOWER DIVISION COURSES (BASIC)

Military Science 101. Introduction to Military Science. **Two hours.**

Organization of the Army and ROTC; individual weapons and marksmanship; *basic military subjects; leadership laboratory.

Military Science 102. Basic Military Training. **Two hours.**

Prerequisite: Military Science 101 or equivalent.

U. S. Army and national security; *basic military subjects; leadership laboratory.

Military Science 201. Second Year Basic Military Training. **Two hours.**

Prerequisite: Military Science 102 or equivalent.

Map and aerial photograph reading; introduction to basic tactics and techniques; leadership laboratory.

Military Science 202. Second Year Basic Military Training. **Two hours.**

Prerequisite: Military Science 201 or equivalent.

American military history; leadership laboratory.

UPPER DIVISION COURSES (ADVANCED)

Military Science 301. First Year Advanced Military Training. **Four hours.**

Prerequisite: Basic course or equivalent.

Leadership; military teaching principles; small unit tactics and communications; leadership laboratory.

Military Science 302. First Year Advanced Military Training. **One hour.**

Prerequisite: Military Science 301.

Branches of the Army; **precamp orientation; leadership laboratory; ***academic subject elective.

Military Science 401. Second Year Advanced Military Training. **Four hours.**

Prerequisite: Military Science 302.

Operations; logistics; army administration; military law; leadership laboratory.

Military Science 402. Second Year Advanced Military Training. **One hour.**

Prerequisite: Military Science 401.

The role of the United States in world affairs; service orientation; leadership laboratory; ****academic subjects.

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* To include military first aid; care of mass casualties; chemical-biological-radiological warfare; drill and ceremonies.

** This 5-hour course may be introduced as substitute instruction in leadership laboratory.

*** Elective academic subjects must be chosen during the junior and senior years; be approved in advance by the Professor of Military Science and must be three hour upper or graduate division courses chosen from the following academic areas:

1. English
2. Language
3. Speech (any three hour course)
4. Chemistry, Physics, Biology, Science, Geography and Mathematics
5. Psychology
6. Political Science
7. History

In the event that a particular subject is required in the student's normal academic curriculum during the freshman and sophomore years, electives must be selected either from another general area or from an upper division subject in the same area. However, if the subject selected was not required in the student's academic curriculum during the freshman and sophomore years, complete freedom of selection from within the seven above stated academic areas is permissable. The Professor of Military Science will evaluate and approve the elective subjects selected. Consideration will be given to the value of the subject in furthering the professional qualifications of the student as a prospective commissioned officer in the United States Army.

****Academic subject elective courses are from the same areas and courses as for Military Science III.

MUSIC

Background. Before selecting the field of music for special or major concentration, the student will consult with the head of the department. Because the training of a music teacher requires a better musical background, together with more knowledge and skills, than may be acquired during the normal four years of college, **students who select music as an area or major should have had some pre-college music training and must have certain natural aptitudes.** It is highly desirable that a student be a fairly proficient pianist before coming to college. However, proficiency on some other instrument and/or voice may have an equivalent value.

Ensemble Participation. The requirements for ensemble participation are the same for all areas and majors in music, both professional and non-professional degrees. The student should, during the first semester of college, make plans with the head of the department for the proper satisfaction of this requirement.

Activities. Students who are taking an area or a major in music will be expected to participate in the activities and organizations of the Music Department, and to accept such assignments as are given them in these connections.

Recital Attendance. Attendance at the college concerts, and at recitals, is required. Unsatisfactory attendance will affect grades in applied music, as this is considered to be a normal part of such work.

Public Performance. Before accepting an engagement for public performance, the student of applied music must secure the approval of his teacher in that particular field.

Applied Music Requirements.

Major Applied—Each Music area student is required to study his major instrument for seven semesters.

Secondary Applied—as outlined in curriculum.

Before graduation, all music area students must have four credits in public performance, on the following basis: One credit for each solo performance; one-half credit for each ensemble performance or each accompaniment on piano of major length and difficulty. They must also participate in small ensembles as they are qualified.

Secondary Piano—Requirements prior to graduation.

No student will be recommended for student teaching in any area of Vocal Music without piano preparation as outlined: Every music area and music major student should be able to play simple piano accompaniments at sight; to play the easier choral 4-part

folk songs and hymns; to harmonize at sight tunes from elementary music series books; to show reasonable competency in transposition. It is important that the student perform with accuracy and assurance, and up to tempo. For the voice major, the requirement includes completion of Music 110 and 111, a continuation of Music 112 or 112a until he can play piano accompaniments of moderate difficulty and can read piano reductions of choral music of moderate difficulty. For the instrumental major, the piano requirement will be met by completing with a grade of "B" both Music 110 and 111. For **all** students a piano proficiency examination must be passed prior to the student teaching semester.

SUMMARY OF COURSES FOR MUSIC AREA

General Academic

English 101, 102, 211, 212	3 hrs. each	12
History 246, 247	3 hrs. each	6
Social Science 100, 101	3 hrs. each	6
Physical Education 115, 116	1 hr. each	2
Health 201	3 hrs.	3
Science 109, 111, elective, elective (Science or Mathematics)	3 hrs. each	12
*Humanities (Music 371, 372, listed under Music)		

Education and Psychology

Psychology 211	3 hrs.
Education 202	3 hrs.
315	2 hrs.
316	2 hrs.
364	4 hrs.
441	3 hrs.

Music

Theory		
Music 181, 182, 281, 282	2 hrs. each	8
Music 191, 192, 291, 292	2 hrs. each	8
History and Literature		
Music 272, or elective	3 hrs.	3
*Music 371, 372	3 hrs. each	6
Applied		
Major Instrument—7 semesters (Minimum of 7 hours)		7-14
Classes		
Instrument classes, repertory, pedagogy		10
Techniques		
Methods, Arranging, Conducting		12
Ensembles—decided in consultation with head of department—minimum of seven semesters.		

** Eight hours—Military Science (Men)
Elective (Women)

MUSIC AREA CURRICULUM—Wind Emphasis

Freshman Year	First Sem.	Second Sem.	Course Description
Applied Major	1	1	Major instrument
Piano	1	1	Class or private
Music 130, 131	1	1	String Class
Music 181, 182	2	2	Harmony
Music 191, 192	2	2	Sight Singing & Ear Tr.
English 101, 102	3	3	Spoken & Wr. Communication
Social Science 100, 101	3	3	Contemporary Problems
Orientation 100, 101	1	1	College Orientation
Physical Education 115, 116	1	1	
Military Science 101, 102	2	2	
Ensemble(s)	*	*	
Sophomore Year			
Applied Major	1	1	Major instrument
Music 251, 253	1	1	Brass Class
Music 281, 282	2	2	Harmony
Music 291, 292	2	2	Sight Singing & Ear Tr.
English 211, 212	3	3	Literature
Psychology 211	3	—	General Psychology
Education 202	—	3	Professional Orientation
Science 109, 111	3	3	Phys. Sci.; Biol. Sci.
Military Science 201, 202	2	2	
Ensemble(s)	*	*	
Junior Year			
Applied Major	1	1	Major instrument
Music 350, 353	1	1	Woodwind Class
Music 354	—	1	Percussion Class
Music 371, 372	3	3	Music History
Music 367	2	—	Instrumental Techniques
Music 366	—	2	Conducting
Music 384	—	2	Band Arranging
Music 272 or elective	—	3	Music Literature or elective
Education 315, 316	2	2	Human Development
History 246, 247	3	3	Western Civilization
Science Elective	3	—	
Health 201	3	—	Community Health
Ensemble(s)	*	*	
Senior Year			
Applied Major	1	—	Major instrument
Music 380	2	—	Form and Analysis
Music 363	2	—	Grade Methods and Mat.
Music 365	—	2	Junior High School Music
Music 364	—	2	High School Music
Music 320	1	—	Class Voice
Science Elective	3	—	
Education 364	—	4	Fund. of Secondary Education
Education 463	—	10	Student Teaching
Education 441	3	—	
Ensemble(s)	*	*	

* Decided in consultation with head of department.

MUSIC AREA CURRICULUM—String Emphasis

Freshman Year	First Sem.	Second Sem.	Course Description
Applied Major	1	1	Major instrument
Piano	1	1	Class or private
Music 130, 131	1	1	String Class
Music 181, 182	2	2	Harmony
Music 191, 192	2	2	Sight Singing & Ear Tr.
English 101, 102	3	3	Spoken & Wr. Communication
Social Science 100, 101	3	3	Contemporary Problems
Orientation 100, 101	1	1	College Orientation
Physical Education 115, 116	1	1	
Military Science 101, 102	2	2	
Ensemble(s)	*	*	
Sophomore Year			
Applied Major	1	1	Major instrument
Music 251, 353	1	1	Brass Class; Woodwind Class
Music 281, 282	2	2	Harmony
Music 291, 292	2	2	Sight Singing & Ear Tr.
English 211, 212	3	3	Literature
Psychology 211	3	—	General Psychology
Education 202	—	3	Professional Orientation
Science 109, 110	3	3	Physical Science
Military Science 201, 202	2	2	
Ensemble(s)	*	*	
Junior Year			
Applied Major	1	1	Major instrument
Music 354	1	—	Percussion Class
Music 320	1	—	Class Voice
Music 371, 372	3	3	Music History
Music 367	2	—	Instrumental Techniques
Music 366	—	2	Conducting
Music 383	—	2	Orchestration
Music 272 or elective	—	3	Music Literature or elective
History 246, 247	3	3	Western Civilization
Biol. Science Elective	3	—	
Health 201	3	—	Community Health
Education 315, 316	2	2	Human Development
Ensemble(s)	*	*	
Senior Year			
Applied Major	1	—	Major instrument
Music 380	2	—	Form and Analysis
Music 363	2	—	Grade Methods and Mat.
Music 365	—	2	Junior High School Music
Music 364	—	2	High School Music
Music 331	2	—	String Pedagogy
Science Elective	3	—	
Education 364	—	4	Fund. of Secondary Education
Education 463	—	10	Student Teaching
Education 441	3	—	
Ensemble(s)	*	*	

* Decided in consultation with head of department.

MUSIC AREA CURRICULUM—Voice Emphasis

Freshman Year	First Sem.	Second Sem.	Course Description
Applied Major	1	1	Major instrument
Piano	1	1	Class or private
Music 130, 131	1	1	String Class
Music 181, 182	2	2	Harmony
Music 191, 192	2	2	Sight Singing & Ear Tr.
English 101, 102	3	3	Spoken & Wr. Communication
Social Science 100, 101	3	3	Contemporary Problems
Orientation 100, 101	1	1	
Physical Education 115, 116	1	1	
Military Science 101, 102	2	2	
Ensemble(s)	*	*	
Sophomore Year			
Applied Major	1	1	Major instrument
Piano	1	1	Class or private
Music 281, 282	2	2	Harmony
Music 291, 292	2	2	Sight Singing & Ear Tr.
English 211, 212	3	3	Literature
Psychology 211	3	—	General Psychology
Education 202	—	3	Professional Orientation
Science 109, 111	3	3	Phys. Sci.; Biol. Sci.
Military Science 201, 202	2	2	
Ensemble(s)	*	*	
Junior Year			
Applied Major	1	1	Major instrument
Music 251, 353	1	1	Brass Class; Woodwind Class
Music 371, 372	3	3	Music History
Music 323	—	1	Voice Pedagogy
Music 368	—	2	Choral Techniques
Music 385	—	2	Choral Arranging
Music 366	2	—	Conducting
Music 272 or elective	—	3	Music Literature or elective
History 246, 247	3	3	Western Civilization
Education 315, 316	2	2	Human Development
Health 201	3	—	Community Health
Science Elective	3	—	
Ensemble(s)	*	*	
Senior Year			
Applied Major	1	—	Major instrument
Music 380	2	—	Form and Analysis
Music 363	2	—	Grade Methods
Music 365	—	2	Junior High School Music
Music 364	—	2	High School Music
Music 362	1	—	Voice Repertory
Science Elective	3	—	
Education 364	—	4	Fund. of Secondary Education
Education 463	—	10	Student Teaching
Education 441	3	—	
Ensemble(s)	*	*	

* Decided in consultation with head of department.

MUSIC AREA CURRICULUM—Keyboard Emphasis

Freshman Year	First Sem.	Second Sem.	Course Description
Applied Major	1	1	Major instrument
Applied elective	1	1	Elective
Music 130, 131	1	1	String Class
Music 181, 182	2	2	Harmony
Music 191, 192	2	2	Sight Singing & Ear Tr.
English 101, 102	3	3	Spoken & Wr. Communication
Social Science 100, 101	3	3	Contemporary Problems
Orientation 100, 101	1	1	College Orientation
Physical Education 115, 116	1	1	
Military Science 101, 102	2	2	
Ensemble(s)	*	*	
Sophomore Year			
Applied Major	1	1	Major instrument
Applied elective	1	—	Elective
Music 253	—	1	Brass Class
Music 281, 282	2	2	Harmony
Music 291, 292	2	2	Sight Singing & Ear Tr.
English 211, 212	3	3	Literature
Psychology 211	3	—	General Psychology
Education 202	—	3	Professional Orientation
Science 109, 111	3	3	Phys. Sci.; Biol. Sci.
Military Science 201, 202	2	2	
Ensemble(s)	*	*	
Junior Year			
Applied Major	1	1	Major instrument
Music 350	1	—	Woodwind Class
Music 371, 372	3	3	Music History
Music 313	1	—	Piano Pedagogy
Music 367 or 368	2	—	Instr. or Choral Tech.
Music 384, 385, or 383	—	2	Band Arr., Choral Arr., or Orchestration
Music 366	—	2	Conducting
Music 272 or elective	—	3	Music Literature or elective
History 246, 247	3	3	Western Civilization
Education 315, 316	2	2	Human Development
Science elective	3	—	
Health 201	—	3	Community Health
Ensemble(s)	*	*	
Senior Year			
Applied Major	1	—	Major instrument
Music 380	2	—	Form and Analysis
Music 363	2	—	Grade Meth. and Mat.
Music 365	—	2	Junior High School Music
Music 364	—	2	High School Music
Music 320	1	—	Class Voice
Science elective	3	—	
Education 364	—	4	Fundamentals of Secondary Education
Education 463	—	10	Student Teaching
Education 441	3	—	
Elective Ensemble(s)	*	*	

* Decided in consultation with head of department.

SUMMARY OF MUSIC COURSES FOR MUSIC MAJOR

(With right of teaching)

Vocal

Music 181, 182—Harmony 4
Music 191, 192—S. S. & Ear Tr..... 4
Music 368—Choral Techniques..... 2
Music 366—Conducting 2
Music 371, 372—Music History..... 6
Piano—To satisfaction of head of department
Music 363—Grade Music 2
Music 364—High School Music..... 2
Music 365—Junior High Music..... 2
Music 320—Voice Class 1
Music 272 or elective..... 3
Applied 4
Ensembles—decided in consultation with head of department

Instrumental

Music 181, 182—Harmony 4
Music 191, 192—S. S. & Ear Tr..... 4
Music 367—Instrum. Techniques 2
Music 366—Conducting 2
Music 371, 372—Music History..... 6
Piano—To satisfaction of head of department
Music 251, 253—Brass Class..... 2
Music 350, 353—Woodwind Class..... 2
Music 130, 131—String Class..... 2
Music 354—Percussion Class 1
Music 384—Band Arranging 2
Music 272 or elective 3
Music 363—Grade Music 2
Music 364—High School Music 2
Music 365—Junior High Music..... 2
Applied 2
Ensembles—decided in consultation with head of department

Recommended Curriculum for a Second Major in Music Without Right of Teaching Certificate

Music 180 Elements of Music..... 2
Music 181-2 Harmony I and II..... 4
Music 191-2 S. S. & E. T. I and II.. 4
Music 272 Basic Music Literature.... 3
Music 371-2 Mus. Hist. I and II..... 6
Elective 5

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Curriculum for a Minor in Music Without Right of Teaching Certificate

Courses for the minor must be selected in consultation with the Head of the Music Department.

ENSEMBLE PARTICIPATION

These requirements are the same for all music major and music area students. Every student shall, upon consultation with his faculty advisor or with the head of the department, select one of the following fields of ensemble participation. Such participation must begin with the first semester of the freshman year. In order to discharge the requirements for ensemble participation, only consecutive semesters shall be considered as constituting a year. This statement represents the minimum requirements for music majors; more extensive participation is advised for the sake of the musical and professional growth of the individual.

Voice

4 years Choir
1 year Piano 112a* required in addition to Music 110 and 111

5 years Total

Piano

2 years Choir
2 years Accompanying
1 year Elective

5 years Total

Orchestra

4 years Orchestra
1 year Choir/Band/Ensembles

5 years Total

Band

4 years Band
1 year Choir/Orchestra/Ensembles

5 years Total

* Or Two hours Music 112, if minimum qualification can be met.

MUSIC FEES

Class Instruction, per semester

Class Winds and/or Class Strings	$ 5.00
Class Piano and/or Class Voice	12.00

Individual Instruction, per semester

All instruments and voice—Two lessons per week	37.50
One lesson per week	25.00
Practice Room, Piano, Voice, one hour daily per semester	5.00
Practice Room, String and Wind Instruments, one hour daily per semester	2.50
Use of college-owned instrument, string, or wind, one semester	5.00

Note: When content courses are taught on an individual basis, the fees in these courses will be the same as the fees in applied music.

APPLIED MUSIC

Except as noted, instruction is given in individual lessons of two one-half hour periods each week. Piano or voice classes are two one-hour periods each week; string class, three periods; wind classes, three periods.

LOWER DIVISION COURSES

Music 11. Piano. **No credit.**
Introductory course in piano for students who do not meet the minimum requirements for Music 112.

Music 12. Voice. **No credit.**
Introductory course, preparatory to Music 122.

Music 13a. Violin. **No credit.**
An introductory course, preparatory to Music 132.

Music 13b. Viola. **No credit.**
An introductory course, preparatory to Music 134.

Music 13c. Violoncello. **No credit.**
An introductory course, preparatory to Music 136.

Music 15. Wind Instruments. **No credit.**
An introductory course for those who wish to learn to play any of the woodwind or brass instruments.

Music 110. Class Piano. **One hour.**
Introductory course for vocal and instrumental students, designed, with Music 111, to meet the piano requirements as outlined in the catalog for Secondary Piano.

Music 111. Class Piano. **One hour.**
Prerequisite: A grade of "B" in Music 110.
Continuation of Music 110.

Music 112. Piano. **One or two hours.**
Two lessons per week, with approximately six hours of practice and study per week.

Music 112a. Piano. **One or two hours.**
Prerequisite: A grade of "B" in Music 111, or the equivalent.
A course in private instruction continuing the aims and purposes of Music 110 and 111.

Music 122. Voice. **One or two hours.**

Music 130. String Class. **One hour.**
To provide for the beginner who wishes to learn to play a string instrument an opportunity to study under the stimulus of class instruction; to start the beginner on the road toward sufficient playing and technical ability to teach strings in class and to train the string section of a school orchestra.
The first semester is devoted to the study of one particular instrument. Three periods each week.

Music 131. String Class. **One hour.**
A continuation of Music 130. During this semester the student may devote some attention to string instruments other than his principal class instrument. Three periods each week.

Music 132. Violin. **One or two hours.**

Music 134. Viola. **One or two hours.**

Music 136. Violoncello. **One or two hours.**

Music 138. String Bass. **One or two hours.**

Music 142. Organ. **One or two hours.**
Prerequisite: Four years of piano study.

Music 152. Wind Instrument. **One or two hours.**

Music 251. (Formerly Music 351.) Brass Instrument Class I. **One hour.**
A class in brass wind instruments. Practical instruction in methods of tone production, fingering, and care of instruments; group instruction involving handling and playing of the brass wind instruments of the band and orchestra; the examination of materials suitable for beginning ensembles.

Music 253. Brass Instrument Class II. **One hour.**
A continuation of Music 251.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Music 312. Piano. **One or two hours.**

Music 320. Class Voice. **One hour.**
This is a course in basic vocal techniques designed for students whose applied major is not voice. Sight reading ability and music aptitude are prerequisites.

Music 322. Voice. **One or two hours.**

Music 332. Violin. **One or two hours.**

Music 334. Viola. **One or two hours.**

Music 336. Violoncello. **One or two hours.**

Music 338. String Bass. **One or two hours.**

Music 342. Organ. **One or two hours.**

Music 350. Woodwind Instrument Class I. **One hour.**
A class in woodwind instruments. Practical instruction in methods of tone production, tuning, fingering, and care of instruments; group instruction involving handling and playing of the woodwind instruments of the band and orchestra; the examination of materials suitable for beginning ensembles.

Music 352. Wind Instrument. **One or two hours.**

Music 353. Woodwind Instrument Class II. **One hour.**
A continuation of Music 350.

Music 354. Percussion Class. **One hour.**
A class in percussion instruments. Practical instruction in care and playing of percussion instruments; group instruction involving technique problems, examination of materials suitable for beginning ensembles.

MUSIC

LOWER DIVISION COURSES

Music 91. Rudiments of Theory. **No credit.**

A course designed to prepare students for the study of theory, particularly Music 181 and Music 191.

Music 125. Choir. **One-half hour.**

The College Choir is open to all college students who qualify. The organization aims to develop and perpetuate a high standard of choral-ensemble singing. Each year the Choir makes a number of appearances on the campus and before high schools and other organizations. It also assists in the presentation of the Messiah, Baccalaureate, and other programs. Membership in the Choir will include attendance at rehearsals for these programs. Three or more rehearsals per week.

Music 126. Chamber Choir. **One-half hour.**

Music 127. Opera Workshop. **One-half hour.**

Admission by audition. Participation in and presentation of opera scenes; singing, stage movement, dramatic interpretation. Observation of others when not performing. Pianists may enroll as accompanists provided they perform in one vocal ensemble.

Music 155. Band. **One-half hour.**

Music 156. Wind Ensemble. **One-half hour.**

Music 180. Elements of Music. **Two hours.**

Staff notation, notes, rests, clefs, scales (various modes), keys, meter, chromatic tones, intervals, chords, cadences, abbreviations, and other symbols; music terms; elements of form; solmization; music writing and simple dictation.

[2]**Music 181.** Harmony I. **Two hours.**

Four voice part writing based on primary triads; the dominant seventh; melodic passing tones and embellishments; keyboard work consisting of scales, triads, etc.

[2]**Music 182.** Harmony II. **Two hours.**

Prerequisite: Music 181.

Continuation of first term harmony; use of secondary triads and inversions in major and minor keys; harmonizations with figured bass and given soprano; original composition in simple forms; keyboard work with cadences and elementary harmonization; secondary chords of the seventh; modulation to nearly related keys; continuation of keyboard and original work.

[2]**Music 191.** Sight Singing and Ear Training I. **Two hours.**

Sight singing of melodic exercises in major and minor keys and in various rhythms; tone group, and verbal and tonal dictation; interval drill.

[2]**Music 192.** Sight Singing and Ear Training II. **Two hours.**

Prerequisite: Music 191.

Music 205. Chamber Music. **One-half hour.**

The study and performance of standard chamber music literature, quartets, quintets, etc. Open to pianists, vocalists, and string and wind instrument players upon the recommendation of the instructor. Course may be repeated as many times as necessary or desirable.

Music 225. (Formerly Music 221.) Choir. **One-half hour.**

Music 226. Chamber Choir. **One-half hour.**

[1]**Music 235.** (Formerly Music 220.) Orchestra. **One-half hour.**

[1]**Music 255.** (Formerly Music 210.) Band. **One-half hour.**

Music 256. Wind Ensemble. **One-half hour.**

Music 271. The Enjoyment of Music. **Three hours.**

Not open to music majors.

A course designed for the non-musician to increase his enjoyment and understanding of music through guided listening. A large and representative library of recorded music is available, with ample facilities for student listening. Class preparation for this course will include attendance at the regular college concerts, and certain other musical events on the campus. This course is open to all students who are not music majors.

Music 272. (Formerly Music 271.) **Basic Music Literature.** Three hours.

For music majors. Others only with special permission.

An introduction to the standard concert repertory, through intensive, guided listening. Illustrated by representative works of major composers.

[2]**Music 281.** Harmony III. **Two hours.**

Prerequisite: Music 182.

Extraneous modulation; secondary chords of the seventh; analysis of sonatas of Haydn and Mozart; study of melodic and harmonic development; chords of the Neapolitan sixth; augmented sixth.

[2]**Music 282.** Harmony IV. **Two hours.**

Modulation through use of the diminished seventh chord; analysis and memorizing a Bach choral; writing a sonata-allegro form.

[2]**Music 291.** Sight Singing and Ear Training III. **Two hours.**

Prerequisite: Music 192.

[2]**Music 292.** Sight Singing and Ear Training IV. **Two hours.**

Prerequisite: Music 291.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Music 325. (Formerly Music 321.) Choir. **One-half hour.**

Music 326. Chamber Choir. **One-half hour.**

Music 327. Opera Workshop. **One-half hour.**

Music 331. String Pedagogy. **Two hours.**

Care and repair of stringed instruments; actual teaching of preparatory students under supervision of the instructor; seminars on string pedagogy involving clinical observation of preparatory students; evaluation of basic string method publications and repertory.

Music 355. Band. **One-half hour.**

Music 356. Wind Ensemble. **One-half hour.**

Music 360. (Formerly Music 260.) Public School Music. **Three hours.**

Such knowledge of music theory and of the principles of notation as is needed by the grade teacher; the aims of music in the grades; the child voice; tone quality; the unmusical singer; rhythmic development; use of the pitch pipe; rote songs; use of the phonograph in teaching songs, use of classroom rhythm and melody instruments, together with increasing ability in music reading on the part of the student.

Music 361. Teaching Repertory, Piano. **One hour.**

This course is designed to widen the student's acquaintance with piano literature, to give him a repertoire of teaching material, a knowledge of teaching procedures. A note book containing notes on methods of attacking technical problems, lists of teaching materials for various grades, etc., is required.

Music 362. Teaching Repertory, Voice. **One hour.**

This course is designed to widen the student's acquaintance with voice literature, to give him a repertoire of teaching material, and a knowledge of teaching procedures. A note book containing notes on methods of attacking technical problems, lists of teaching materials for various grades, etc., is required.

Music 363. Grade Methods and Materials. **Two hours.**

Prerequisite: Music 260 or 180 or the equivalent.

A course in the teaching and supervision of music in the grades, designed primarily for music majors.

Music 364. High School Music. **Two hours.**

A course in the organization, presentation, and administration of high school music, including the junior high school, designed primarily for music majors.

Music 365. Junior High School Music. **Two hours.**

A course in the organization, presentation and administration of junior high school music, with special emphasis on the general music class; designed primarily for music majors.

Music 366. Conducting. **Two hours.**

A course in the fundamentals of conducting, with attention to their application to the high school band, orchestra and chorus.

Music 367. Instrumental Techniques. **Two hours.**

A course in the organization and administration of a beginning instrumental program in the elementary school, marching and concert band in the junior and senior high schools; ensembles, rehearsal procedures; programming; and instrument repairs.

Music 368. Choral Materials and Techniques. **Two hours.**

A course in the study of the choral literature available for junior and senior high school, with particular attention to its musical value, and to its difficulty and suitability for the various choral groups. Administration of choral programs, as well as methods for producing good singing.

Music 371. Music History I. **Three hours.**

Archaic and medieval music; organization of church music, music of the Renaissance and Reformation; music of Elizabethan England; early classical composers; Bach, Handel, Haydn, and Mozart, the early Beethoven.

Music 372. Music History II. **Three hours.**

Romanticism in music; the Romantic opera; development of piano music; the art song; late Romantic and national trends in music; modern music; Impressionism; atonality; Beethoven; Schubert; Schumann; Chopin; Liszt; Wagner; Debussy; Ravel; Hindemith; Stravinsky; Jazz influence in American music, contemporary music.

[2]**Music 380.** Form and Analysis. **Two hours.**

[2]**Music 381.** Counterpoint I. **Two hours.**

[2]**Music 382.** Counterpoint II. **Two hours.**

[2]**Music 383.** Orchestration. **Two hours.**

Music 384. Arranging. **Two hours.**

A beginning course in instrumentation and arranging for band and orchestra.

Music 395. Advanced Sight Singing and Ear Training. **Two hours.**

Review and continuation of Music 292. Designed primarily for graduate students and for students who are preparing for graduate work. Emphasis on hearing and writing chords.

Music 425. (Formerly Music 421.) Choir. **One-half hour.**

Music 426. Chamber Choir. **One-half hour.**

Music 455. Band. **One-half hour.**

Music 456. Wind Ensemble. **One-half hour.**

Music 460. (Formerly Music 261.) Public School Music II. **Three hours.**

Prerequisite: Music 360.

A course designed to give more detailed and extensive study of music teaching procedures in the elementary grades. To give the teachers of these grades experience in compiling and using materials which may be taken directly into the classroom. The following aspects of music teaching will be emphasized: the use of rhythmic instruments and devices to encourage bodily expression and to create pleasurable music experiences; the perfection of reading skills; examination of new music series and their accompanying records; and the development of music programs appropriate for each grade level.

[2]**Music 461.** Band and Orchestra Procedures and Materials I. **Two hours.**

Analysis and organization of various courses of study for instrumental groups of varying abilities; rehearsal routines; training student sectional leaders; duties which may be assumed by students; adaptation of practice quarters to fit acoustical needs; program mechanics for public appearances; publicizing and interpreting music activities; care of equipment; program and teaching materials; consideration of the modified Prescott system and similar courses of study.

[2]**Music 462.** Band and Orchestra Procedures and Materials II. **Two hours.**

Continuation of Music 461.

Music 463. Teaching Piano in Classes. **Two hours.**

Prerequisite: Three years of piano study in college or the equivalent.

[2]**Music 481.** Canon and Fugue I. **Two hours.**

[2]**Music 482.** Canon and Fugue II. **Two hours.**

[2]**Music 483.** Composition. **Two hours.**

GRADUATE DIVISION COURSES

[3]**Music 512.** Piano. **One to four hours.**
Prerequisite: Music 312. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.
This is a continuation on the graduate level, requiring more work of better quality than is required on the undergraduate level.

[3]**Music 513.** Pedagogy of Piano. **Two hours.**
Prerequisite: Same as for Music 512.
This course is designed to enlarge the teaching repertory of the graduate piano student through detailed study of modern teaching methods and techniques.

[3]**Music 522.** Voice. **One to four hours.**
Prerequisite: Music 322.
This course is designed to enlarge the teaching repertoire of the graduate voice student. Emphasis will be placed on cantatas, oratorios, and operas. The student will be given an opportunity to teach voice under supervision.

[2]**Music 523.** Pedagogy of Voice. **Two hours.**
This course is designed to give the student a thorough background in repertoire for voice, and a knowledge and application of teaching procedures. A notebook and term paper are required.

[2]**Music 530.** Problems and Research in the Class Teaching of Strings. **Three hours.**
A graduate course in the problems and methods of the teaching of strings in classes, with consideration of the homogeneous and the heterogeneous class, research in available materials, with attention to their actual success in class teaching.

[2]**Music 531.** Curriculum Practices and Trends in the Teaching of Stringed Instruments. **Three hours.**
A course designed for the graduate music student whose major applied interest is in strings, with attention to the development of teaching procedures for the various instruments particularly as their problems become more divergent.

[3]**Music 532.** Violin. **One to four hours.**
Prerequisite: Music 332. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

[2]**Music 533.** Special Problems in String Teaching. **One to three hours.**

[3]**Music 536.** Violoncello. **One to four hours.**

[3]**Music 542.** Organ. **One to four hours.**

[3]**Music 552.** Wind Instrument. **One to four hours.**
Continuation of Music 352 on the graduate level, requiring more work than was required on the undergraduate level.

[2]**Music 553.** Pedagogy of Wind Instruments. **Two hours.**

Music 565. Music in Junior High School. **Three hours.**
A consideration of the purposes of the junior high school general music class, of the needs and interests of the pupils, and of methods and materials instruction.

Music 571. Music History Survey to the Romantic Period. **Three to four hours.**
A detailed and intensive study of music history and of music literature to the end of the classical period.

Music 572. Music History Survey from Romantic Period to the Present. **Three to four hours.**

A continuation of Music 571.

[2]**Music 581.** Acoustics, Construction and Development of Musical Instruments. **Three hours.**

Prerequisite: Music 350-351 or the equivalent.

A graduate research course, investigating the historical development, the construction, the acoustical properties of wind instruments. The student is expected to complete three research projects each semester.

Music 585. Choral Arranging. **Three hours.**

An introductory course in arranging for typical junior and senior high school vocal ensembles.

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[1] Consecutive semesters in this course will be required for credit, any two consecutive semesters will earn one hour of credit. Admission to membership upon approval of instructor.

[2] During semesters when Music 181, 182, 281, 282, 381, 382, 383, 481, 482, 483, 191, 192, 291, 292, 461, 462, 533, 553, 581 are not offered as regular classes, they may be taken as individual instruction, under the same arrangements as instruction in Applied Music.

[3] Applied music will be accepted in satisfaction of graduate non-professional subject matter and electives, upon the recommendation of adviser and Dean.

ORIENTATION

Orientation 100. (Formerly Sociology 100.) College Orientation. **One hour.**

The college and its functions; living in college; the development of efficient study habits; personal and family responsibilities; social relationships; vocational guidance.

Orientation 101. (Formerly Sociology 101.) College Orientation. **One hour.**

A continuation of Orientation 100.

PHYSICAL EDUCATION

(Recommended Curriculum for a major in the area of Health, Physical Education and Recreation with right of teaching certificate—Men)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Health 201	3	Health 202	2
Military Science 101	2	Military Science 102	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Physical Education 125	2	Science 109 or 110	3
Science 111	3	Social Science 101	3
Social Science 100	3	Elective	3
	18		18

Second Year

Biology 225	3	Biology 219	3
English 211	3	Education 202	3
History 246	3	English 212	3
Military Science 201	2	History 247	3
Physical Education 215	2	Military Science 202	2
*Restrictive Elective	3	Physical Education 216	2
		Psychology 211	3
	16		19

Third Year

Education 315	2	Education 316	2
Health 315	2	Health 366	2
Health 364	2	Physical Education 320	2
Physical Education 300	2	Physical Education 322	2
Physical Education 325	2	Physical Education 326	3
Physical Education 367	1	Physical Education 368	1
Elective in Coaching	4	Physical Education 370	2
*Restrictive Elective	3	Elective	2
	18		16

Fourth Year

Education 441	3	Education 364	4
Health 410	2	Education 463	10
Physical Education 400	3	Physical Education 466	3
Physical Education 401	3		
Physical Education 468	2		
Physical Education 475	3		
Elective in Coaching	2		
	18		17

* Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

PHYSICAL EDUCATION

(Recommended Curriculum for a major in the area of Health, Physical Education and Recreation with right of teaching certificate—Women)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Health 201	3	Health 202	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Physical Education 125	2	Science 109 or 110	3
Science 111	3	Social Science 101	3
Social Science 100	3	Elective	5
	16		18

Second Year

Biology 225	3	Biology 219	3
English 211	3	Education 202	3
History 246	3	English 212	3
Physical Education 210	2	History 247	3
Physical Education 245	2	Physical Education 211	2
*Restrictive Elective	3	Physical Education 212	1
Elective	2	Psychology 211	3
	18		18

Third Year

Education 315	2	Education 316	2
Health 315	2	Health 365 or 366	2
Health 364	2	Physical Education 311	2
Physical Education 300	2	Physical Education 320	2
Physical Education 310	2	Physical Education 322	2
Physical Education 325	2	Physical Education 326	3
Physical Education 354	2	Physical Education 352	2
Physical Education 361	2	Physical Education 370	2
	16		17

Fourth Year

Education 441	3	Education 364	4
Physical Education 400	3	Education 463	10
Physical Education 401	3	Physical Education 466	3
Physical Education 468	2		
Physical Education 475	3		
*Restrictive Elective	3		
	17		17

* Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

PHYSICAL EDUCATION

(Recommended Curriculum for a major in Physical Education with right of teaching certificate—Men)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Military Science 101	2	Health 201	3
Orientation 100	1	Military Science 102	2
Physical Education 115	1	Orientation 101	1
Physical Education 125	2	Physical Education 116	1
Science 111	3	Science 109 or 110	3
Social Science 100	3	Social Science 101	3
Elective	3	Elective	2
	18		18

Second Year

Biology 225	3	Biology 219	3
English 211	3	Education 202	3
History 246	3	English 212	3
Military Science 201	2	History 247	3
Physical Education 215	2	Military Science 202	2
*Restrictive Elective	3	Physical Education 216	2
Elective	2	Psychology 211	3
	18		19

Third Year

Education 315	2	Education 316	2
Physical Education 300	2	Physical Education 322	2
Physical Education 325	2	Physical Education 326	3
Physical Education 367	1	Physical Education 368	1
Elective in Coaching	2	Elective	8
*Restrictive Elective	3		
Elective	4		
	16		16

Fourth Year

Education 441	3	Education 364	4
Physical Education 468	2	Education 463	10
Physical Education 475	3	Physical Education 466	3
Elective in Coaching	2		
Elective	6		
	16		17

* Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

PHYSICAL EDUCATION

(Recommended Curriculum for a major in Physical Education with right of teaching certificate—Women)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Orientation 100	1	Health 201	3
Physical Education 115	1	Orientation 101	1
Physical Education 125	2	Physical Education 116	1
Science 111	3	Science 109 or 110	3
Social Science 100	3	Social Science 101	3
Elective	5	Elective	4
	18		18

Second Year

Biology 225	3	Biology 219	3
English 211	3	Education 202	3
History 246	3	English 212	3
Physical Education 210	2	History 247	3
Physical Education 245	2	Physical Education 211	2
*Restrictive Elective	3	Physical Education 212	1
		Psychology 211	3
	16		18

Third Year

Education 315	2	Education 316	2
Physical Education 300	2	Physical Education 311	2
Physical Education 310	2	Physical Education 322	2
Physical Education 325	2	Physical Education 352	2
Physical Education 361	2	Elective	8
*Restrictive Elective	3		
Elective	3		
	16		16

Fourth Year

Education 441	3	Education 364	4
Physical Education 468	2	Education 463	10
Physical Education 475	3	Physical Education 466	3
Elective	8		
	16		17

* Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

Recommended Curriculum for a second major in Physical Education—Men

Physical Education 125, 215, 216, 300, 322, 325, 367, 368, 468, and 475; six hours elective from Physical Education 261, 326, 360, 362, 400, 420.

Recommended Curriculum for a second major in Physical Education—Women

Physical Education 125, 207, 208, 212, 245, 300, 310, 311, 322, 325, 352, 361, 468, and 475.

Recommended Curriculum for a minor in Physical Education—Men

Physical Education 125, 215, 216, 300, 322, 367, 368, and 468; six hours elective from Physical Education 261, 360, 362, 400, 420, and 475.

Recommended Curriculum for a minor in Physical Education—Women

Physical Education 125, 207, 208, 212, 245, 300, 310, 311, 322, and 468.

LOWER DIVISION COURSES

The service program in Physical Education recognizes the need of students for physically wholesome and mentally stimulating activity. To that end it seeks to satisfy basic physical needs and contribute to socially efficient living. The service program is concerned not only with the development of and maintenance of physical fitness and organic vigor, but also with educational outcomes that will carry future benefits in the way of healthful living and worthwhile leisure time activity. More specifically, the service program is concerned with helping students:

1. Achieve and maintain an optimum level of physical efficiency.
2. Acquire fundamental physical skills for recreation, safety, self-expression, and survival.
3. Find healthful, satisfying release from tensions.
4. Develop attitudes and understandings which lead to acceptance of moral and social standards of conduct in competitive-cooperative situations.
5. Develop an intelligent attitude toward the need for and benefits of well-regulated physical activity.
6. Develop receptive attitudes toward the use of their free-time in participation in physical activities.

Two semesters of elected activity are required, Physical Education 115 and 116. Individuals may be assigned to a developmental class or to an adapted class in accordance with their needs and abilities.

Physical Education 115. Fundamental Physical Education Activities. **One hour.**

Activities for Men:

- Bowling
- Dance
- Physical Maintenance
- Tennis
- Volleyball
- Golf
- Soccer
- Swimming
- Tumbling Apparatus
- Wrestling
- Badminton
- Track and Field
- Handball
- Developmental Physical Education
- Adapted Physical Education

Activities for Women:

- Bowling
- Dance
- Physical Maintenance
- Tennis
- Volleyball
- Golf
- Soccer
- Swimming
- Tumbling Apparatus
- Archery
- Badminton
- Track and Field
- Field Hockey
- Basketball
- Developmental Physical Education
- Adapted Physical Education

Physical Education 116. Fundamental Physical Education Activities. **One hour.**

A continuation of Physical Education 115.

Physical Education 125. Introduction to Physical Education. **Two hours.**

Orientation designed to provide an interpretation of the profession. Includes philosophy, aim, objectives, scope, interdisciplinary bases, current problems, professional leadership, publications, and career opportunities.

Physical Education 207. Field Hockey and Volleyball for Women. **Two hours.**

A broad and general knowledge of content material and skill in performance of field hockey and volleyball.

Physical Education 208. Basketball and Soccer-speedball for Women. **Two hours.**

A broad knowledge of content material and skill in performance of basketball and soccer-speedball.

Physical Education 212. Track and Field for Women. **One hour.**

Fundamental techniques in the various track and field events.

Physical Education 215. (Formerly Physical Education 190.) Skills in Physical Education Activities. (Men) **Two hours.**

Students will study and practice the various skills required for participation in a variety of individual and team sports.

Physical Education 216. (Formerly Physical Education 190.) Skills in Physical Education Activities. (Men) **Two hours.**

A continuation of Physical Education 215.

Physical Education 245. Fundamentals of Creative Movement. **Two hours.** (Formerly Physical Education 345.)

An introduction to modern dance and the fundamentals of movement and rhythm.

Physical Education 261. (Formerly Physical Education 24 and 265.) Coaching Baseball. **Two hours.**

Theory and practice in coaching the fundamentals of baseball; team offense and defense.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Physical Education 300. Folk and National Dancing. **Two hours.**

Prerequisite: Physical Education 115 or 116, Social Dance.

Traditional and social dances of the United States and other countries.

Physical Education 310. Archery and Badminton for Women. **Two hours.**

A broad knowledge of content material and skills in performance of archery and badminton.

Physical Education 311. Recreational Sports and Tennis for Women. **Two hours.**

A broad knowledge of content material and skill in performance of recreational sports and tennis.

Physical Education 320. Kinesiology. **Two hours.**

Prerequisite: Biology 225.

Fundamentals of body mechanics; movements of the human body.

Physical Education 322. (Formerly Physical Education 220.) Physical Education in the Elementary School (Grades 1-6). **Two hours.**

Theory and practice in the conduct of physical education for children in the elementary grades. **Four laboratory hours.**

Physical Education 325. (Formerly Physical Education 32.) Physiology of Activity. **Two hours.**

Effects of physical education activities on the various systems of the human body.

Physical Education 326. (Formerly Physical Education 126.) History and Principles of Physical Education. **Three hours.**

The course is designed to develop understanding and interpretation of the principles of a good physical education program. Contributions of historical programs to present day programs will be studied and evaluated.

Physical Education 340. Advanced Swimming and Water Safety. **Two hours.**
Prerequisite: To have passed the Red Cross Beginners and Intermediate swimming tests or their equivalent. A screening test will be given those who have not had the opportunity to take Red Cross tests to determine if they are eligible to take the class.
Emphasis on advanced skills in swimming and water safety in which the Red Cross Instructors Course in Water Safety will be taught.

Physical Education 352. Theory of Basketball and Softball for Women. **Two hours.**
Prerequisite: Physical Education 208.
Theory, technique, and practice in teaching and officiating basketball and softball.

Physical Education 354. Modern Dance Technique and Choreography. **Two hours.**
Prerequisite: Physical Education 245.
A course in modern dance technique, improvisation, choreography, and production.

Physical Education 360. (Formerly Physical Education 37 and 260.) Coaching Basketball. **Two hours.**
Theory and practice in coaching the fundamentals of basketball; team offense and defense.

Physical Education 361. Theory of Field Hockey and Volleyball for Women. **Two hours.**
Prerequisite: Physical Education 207.
Theory, techniques, and practice in teaching and officiating field hockey and volleyball.

Physical Education 362. (Formerly Physical Education 39 and 265.) Coaching Track and Field. **Two hours.**
Theory and practice in coaching fundamentals involved in track and field.

Physical Education 367. Basic Tumbling and Apparatus Activities. **One hour.**
Participation in tumbling exercises and stunts upon the horizontal bar, parallel bars, trampoline, long horse, and horse with pommels, for the prospective tumbling and apparatus teacher. Safety methods, squad procedures, and pupil leadership are stressed.

Physical Education 368. Advanced Tumbling and Apparatus Activities. **One hour.**
A continuation of Physical Education 367 with the emphasis on series exercises on the mats, trampoline, parallel bars, horse with pommels, and horizontal bar.

Physical Education 370. Camp Administration. **Two hours.**
The responsibilities of a camp director concerning program, leadership, health and sanitation and related problems in a modern camping program. Field trips will be taken to camping areas.

Physical Education 400. Organization of School Recreation Activities. **Three hours.**
Students will study problems related to directing recreational activities within a school system. Two hours of laboratory will be assigned each student so they will receive practical experience in directing a school recreation program.

Physical Education 401. Community Recreation. **Three hours.**
The problems of leisure; vacation time for children; adult recreation; content of school programs for leisure education; dramatics; reading; music; art; handcrafts; nature study; extracurricular activities.

Physical Education 420. (Formerly Physical Education 42 and 260.) Coaching Football. **Two hours.**

Theory and practice in coaching the fundamentals of football; team offense and defense.

Physical Education 466. (Formerly Physical Education 366.) Curriculum and Methods for Teaching Physical Education. **Three hours.**

Theories of play; study of existing play programs; correlation with other subjects; games, skills, lesson planning and observation.

Physical Education 468. (Formerly Physical Education 46.) Administration and Organization of Physical Education. **Two hours.**

Policies and procedures of administration on the elementary and secondary school level. Special emphasis on construction and care of facilities, equipment, and supervision of personnel.

Physical Education 470. Workshop for Women in Gymnastics, Track and Field, Synchronized Swimming, and Modern Dance. **One to four hours.**

A workshop designed for those women physical education teachers who wish to better acquaint themselves with skills in and conduct of gymnastics, track and field, synchronized swimming, and modern dance programs.

Physical Education 475. (Formerly Health 475.) Tests and Measurements in Physical Education. **Three hours.**

The students become familiar with the various tests and measurements in this field. They learn how to give and score the tests, evaluate and use the results obtained in the testing program.

Physical Education 496. Workshop for Elementary Teachers in Physical Education Activities. **Three hours.**

This workshop will present a comprehensive review of techniques used in teaching physical education in the elementary grades. Emphasis will be placed on health evaluation, fitness testing, rhythmical activities, game activities, tumbling and self-testing activities.

Physical Education 498. Athletic Coaching Workshop. **Three hours.**

A comprehensive review of fundamentals in coaching basketball, football, baseball, and track on both secondary and college levels. It will include lectures and demonstrations on offensive and defensive techniques to meet modern trends in sports today.

Physical Education 499. Implementing Physical Fitness. **Three hours.**

A course designed to assist physical education teachers in acquiring further competency in the conduct of fitness activities in a typical elementary and secondary school situation. Emphasis will be placed on the review of the fundamentals of testing, interpretation, and program planning necessary to meet the needs of pupils.

GRADUATE DIVISION COURSES

Physical Education 549. Advanced Study in History, Principles, and Modern Trends in Physical Education. **Three hours.**

Students will review history and principles and their application to new trends in this field of study. (A research project is required.)

Physical Education 550. Curriculum Design in Physical Education. **Three hours.**

Problems relating to design of programs in physical education will be studied. A curriculum project will be developed by each student.

Physical Education 551. Planning and Construction Techniques of Facilities and Equipment in Physical Education. **Two hours.**

The problems relating to programming facilities and equipment in physical education will be studied. Students will visit and make surveys of surrounding facilities under the direction of an instructor.

Physical Education 562. Adapted Physical Education. **Three hours.**

Students will study the basic principles of a good adapted program for handicapped students. A practical project will be required of each student.

Physical Education 569. Organization and Administration of Athletics. **Three hours.**

This course deals with the organization of high school and college athletics with reference to national, state, and local control. It considers staff, program, budget, health and safety, insurance, facilities, and other phases of administration.

Physical Education 580. Interpretation of Data in Physical Edccation. **Three hours.**

Methods and techniques in statistics and their interpretation as related to physical education activities will be studied. Students will be assigned statistical problems with physical education data.

Physical Education 591. Independent Problems in Physical Education. **Three hours.**

The student will solve an independent problem in physical education. The solution of this problem will be made by using proper research techniques and through scheduled conferences with an assigned member of the physical education staff.

PHYSICS

(Recommended curriculum for a major in Physics with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men) or Elective (Women)	2	Mathematics 113	3
Physical Education 115	1	Military Science 102 (Men) or Elective (Women)	2
Physics 131	5	Physical Education 116	1
Social Science 100	3	Physics 107	1
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	18		16

Second Year

Education 202	3	English 212	3
English 211	3	Mathematics 251	5
Mathematics 232	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Physics 202	6
Physics 201	6	Psychology 211	3
	17		19

Third Year

Chemistry 111	4	Chemistry 112	5
Education 315	2	Education 316	2
History 246	3	Health 201	3
Mathematics 352	3	History 247	3
Physics Elective	5	Physics Elective	6
	17		19

Fourth Year

Biological Science	3	Education 364	4
Physics Elective	6	Education 463	10
*Restrictive Elective	6	Science 410	3
Elective	3		
	18		17

Recommended Curriculum for a Second Major in Physics (with right of teaching certificate)

A student with a first major in some other department may take the following courses for a second major in Physics: Physics 201, 202, or equivalent (we interpret Physics 131, 132 and 203 as equivalent), and 14 additional hours of Physics numbered above 202 as directed by the Head of the Physics Department. Also Chemistry 111 and Chemistry 112 are required.

All majors in Physics, whether first or second, must have their curriculum contracts checked with the Head of the Physics Department, and must show an interest in the profession of Physics over and above the mere taking of courses.

* Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

Recommended Curriculum for a Minor in Physics
(with right of teaching certificate)

A student with a major and a minor in other departments may take the following courses for a minor in Physics: Physics 201, 202, or equivalent, and 8 hours of elective as directed by the head of the Physics Department, in addition to the mathematics courses necessary for the Physics courses. In addition 9 hours of Chemistry are recommended.

PHYSICS

(Recommended curriculum for a major in Physics without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men) or Elective (Women)	2	Mathematics 113	3
Physical Education 115	1	Military Science 102 (Men) or Elective (Women)	2
Physics 131	5	Physical Education 116	1
Social Science 100	3	Physics 107	1
Orientation 100	1	Social Science 101	3
		Orientation 101	1
	18		16

Second Year

English 211	3	English 212	3
History 246	3	Mathematics 251	5
Mathematics 232	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Physics 202	6
Physics 201	6		
	17		16

Third Year

Chemistry 111	4	Chemistry 112	5
Foreign Language	3	Foreign Language	3
Mathematics 352	3	History 247	3
Physics Elective	6	Physics Elective	6
	16		17

Fourth Year

Biological Science	3	Physics Elective	8 or 9
Physics Elective	8 or 9	Elective	9
Elective	6		
	17 or 18		17 or 18

Recommended Curriculum for a Second Major in Physics (without right of teaching certificate)

A student with a first major in some other department may take the following courses for a second major in Physics: Physics 201, 202, or equivalent (we interpret Physics 131, 132 and 203 as equivalent), and 27 additional hours of Physics numbered above 202 as directed by the head of the Physics Department. Also Chemistry 111 and 112 are required.

All majors in Physics, whether first or second, must have their curriculum contracts checked with the Head of the Physics Department, and must show an interest in the profession of Physics over and above the mere taking of courses.

PHYSICS

LOWER DIVISION COURSES

Physics 107. Slide Rule Theory and Practice. **One hour.**
Designed to aid the student in making mathematical computations easily and rapidly.

Physics 131. Elementary Physics. **Five hours.**
Prerequisite: One unit each of high school algebra and plane geometry.
The fundamental ideas of mechanics; molecular physics; heat. Three lecture and four laboratory hours.

Physics 132. Elementary Physics. **Five hours.**
Prerequisite: Physics 131.
Electricity; magnetism; wave motion; sound; light. Three lecture and four laboratory hours.

Physics 201. Mechanics, Molecular Physics and Heat. **Six hours.**
Prerequisite: Trigonometry.
Falling bodies; Newton's laws of motion and applications to practical problems; curvilinear motion; composition and resolution of forces; the laws of equilibrium and their application to various problems; work and energy; machines; momentum; elasticity; simple harmonic motion; hydrodynamics; heat and molecular physics including thermometry, pressure, expansion of solids, liquids, and gases; modern radiation theory. Four lecture and four laboratory hours.

Physics 202. Electricity, Magnetism, Wave Motion, Sound and Light. **Six hours.**
Prerequisite: Physics 201.
Electrostatics; the nature of electricity; magnetism; Ohm's law; measurement of electrical quantities; sources of electrical energy; Lenz's law; inductance and capacitance; alternating currents; electric waves and radio; theories and problems in sound and light. Four lecture and four laboratory hours.

Physics 203. Problems in General Physics. **Two hours.**
Prerequisite: Physics 131, 132, or equivalent.
Solution of approximately 450 problems selected from topics in an advanced general Physics text. Two recitation hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Physics 300. Modern Physics. **Three hours.**

Prerequisite: Physics 202 or equivalent, Mathematics 352, or registration in Mathematics 352.

The electron; positively charged particles; electric discharge in gases; x-rays and crystal structure; waves and particles; quantum theory; relativity, hydrogen atom and spectra; molecular motion; quanta and spectra.

Physics 302. Physical Optics. **Three hours.**

Prerequisite: Physics 201 and 202, or equivalent.

Wave motion; reflection and refraction; further study of lenses; the telescope; dispersion; facts concerning the spectrum; interference; diffraction; plane polarized light; the electromagnetic theory of light; the quantum theory; origin of spectra. Three recitation hours.

Physics 303. Thermodynamics. **Three hours.**

Prerequisite: Physics 201 and 202, or equivalent; mathematics 352 should be taken simultaneously.

Review of theories and discoveries; thermometry; specific heats; thermal expansion; transfer of heat; laws of thermodynamics; radiation; change of state; continuity of state; production of low temperatures; production of high temperatures. **Three recitation hours.**

Physics 304. Advanced Electricity and Magnetism. **Three hours.**

Prerequisite: Physics 201 and 202, or equivalent, and Mathematics 352.

Magnetism; the electric current; electrostatics; electrolysis; thermoelectricity; electromagnetics; alternating currents; electromagnetic radiation; conduction in gases; electrons and atoms. Three recitation hours.

Physics 305. Advanced Electricity and Magnetism Laboratory. **Two hours.**

Prerequisite: Physics 132 or 202, or equivalent.

Calibration and use of advanced electrical instruments; precision measurements of inductance, capacitance, resistance, and voltage; basic experiments on vacuum tubes; use of cathode ray oscilloscope. Four laboratory hours per week.

Physics 306. Advanced General Laboratory. **Two hours.**

Prerequisite: Physics 132 or 202, or equivalent.

Largely for students majoring or minoring in physics. Consists of the performance and reporting of a carefully selected group of experiments considerably more advanced than in the elementary laboratories. The experiments will spread across the various branches of physics and cover ideas and techniques considered essential to the training of a well-rounded physicist. Four laboratory hours per week.

Physics 307. Electronics. **Four hours.**

Prerequisite: Physics 202 or equivalent.

Theory of thermionic tubes and solid state devices; amplifier circuit principles; photosensitive devices; rectifiers; principals of radio, radar and television. Three recitation hours; two laboratory hours.

Physics 310. Special Problems in Physics. **One to three hours.**

Prerequisite: Physics 202 or equivalent.

Working out of special laboratory experiments; development of new equipment; or solution of special mathematical problems related to physics.

Physics 311. Special Problems in Physics. **One to three hours.**

This course is a continuation of Physics 310.

Physics 315. Radioactivity and Nuclear Physics. **Three hours.**

Prerequisite: Physics 300, or equivalent.

Natural radioactivity; radiation detectors; induced radioactivity; Alpha, Beta, and Gamma rays; neutrons; other particles; cosmic radiation; nuclear fission; applications of radioactivity. Three recitations per week.

Physics 360. Topics in Physics for Teachers. **Four hours.**

Topics from general physics selected to aid the high school teacher of physics and general science to teach with greater confidence. Lecture three hours; laboratory and discussion two hours.

Physics 401. Physics for High School Teachers I. **Three hours.**

Prerequisite: One year of college physics.

Topics from general physics designed to assure that the teacher is prepared to teach high school physics with ease and confidence. Topics from advanced physics and modern physics designed to give the teacher that extra knowledge which will enable him to teach with a greater understanding, and possibly inspire the students. Two hours lecture and two hours laboratory and discussion.

Physics 402. Physics for High School Teachers II. **Three hours.**

A continuation of Physics 401.

Physics 415. Advanced Nuclear Laboratory. **Two hours.**

Prerequisite: Physics 315.

Performance of approximately twelve experiments in nuclear physics; radiation instruments and methods; range and energy of particles; absorption, half-life; neutron moderators and neutron flux measurements; coincidence techniques.

Physics 455. (Also listed as Mathematics 455.) Theoretical Mechanics. **Three hours.**

May be taken either in the Mathematics or Physics Department.

Prerequisite: Mathematics 352 and Physics 201 and 202, or equivalent.

Fundamental concepts of mechanics; rectilinear motion of a particle; curvilinear motion; particle dynamics from the point of view of energy; statics of a particle; statics of a rigid body; dynamics of a rigid body; constrained motion; oscillations; motion of aggregates of particles; deformable bodies and wave motion; mechanics of fluids.

Physics 456. (Also listed as Mathematics 456.) Vector Analysis and its Physical Application. **Three hours.**

May be taken either in the Mathematics or Physics Department.

Prerequisite: Mathematics 352 and Physics 202, or equivalent.

The algebra and calculus of vectors. Applications of vector analysis to solution of problems in geometry and physics.

POLITICAL SCIENCE

A student may major in Political Science (with or without right of teaching certificate) by taking a minimum of 30 semester hours. The student must take at least twelve hours from the following courses: Political Science 100, 101, 102, 103, 201, and 202. At least fifteen hours must be taken in upper division courses and three of these hours must be in political theory. A Political Science major should take twelve hours in a foreign language if he begins the language in college, or six hours if he continues the language at the intermediate level.

It is recommended that a Political Science major take a minor in another social science or in English.

A student may minor in Political Science by taking a minimum of 18 semester hours. He must take at least nine hours from the following courses: Political Science 100, 101, 102, 103, 201, and 202. The remaining nine hours must be in upper division courses.

(Recommended curriculum for a major in Political Science with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Biological Science	3	Political Science 100 or 101	3
Social Science 100	3	Science or Mathematics	3
Orientation 100	1	Orientation 101	1
	16		16

Second Year

English 211	3	Education 202	3
Foreign Language or elective	3	English 212	3
History 246	3	Foreign Language or elective	3
Military Science 201 (Men) or Elective (Women)	2	History 247	3
Political Science 102 or 103	3	Military Science 202 (Men) or Elective (Women)	2
Psychology 211	3	Political Science 201 or 202	3
	17		17

Third Year

Education 315	2	Education 316	2
Health 201	3	Political Science elective	6
Political Science 201 or 202	3	Science or Mathematics	3
Political Science elective	3	Elective	6
Physical Science	3		
Elective	3		
	17		17

Fourth Year

Political Science elective	9	Education 364	4
Elective	6	Education 463	10
		Social Science 466	3
	15		17

POLITICAL SCIENCE

(Recommended curriculum for a major in Political Science without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Biological Science	3	Political Science 100 or 101	3
Social Science 100	3	Science or Mathematics	3
Orientation 100	1	Orientation 101	1
	16		16

Second Year

English 211	3	English 212	3
Foreign Language or elective	3	Foreign Language or elective	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Political Science 102 or 103	3	Political Science 201 or 202	3
Physical Science	3	Science or Mathematics	3
	17		17

Third Year

Health 201	3	Political Science elective	6
Political Science 201 or 202	3	Elective	10
Political Science elective	3		
Elective	7		
	16		16

Fourth Year

Political Science elective	6	Political Science elective	3
Elective	9	Elective	12
	15		15

POLITICAL SCIENCE

LOWER DIVISION COURSES

(Open to Freshmen and Sophomore Students)

Political Science 100. Introduction to Government. **Three hours.**

A survey of basic political ideals underlying modern democracies and dictatorships and their relation to governmental institutions and practices. Description and comparison of the structure and operation of government in the United States and Great Britain, with reference to relevant features of French government and politics and frequent comparisons with the government of the Soviet Union. Designed to introduce the beginning student to current political systems and beliefs.

Political Science 101. (Formerly Government 211.) Principles of American Government. **Three hours.**

The principles and basic political institutions of the American system of government at the national level.

Political Science 102. Functions of American Government. **Three hours.**

Prerequisite: Political Science 100 or 101.

The major functions performed by national, state, and local governments in such areas as finance, foreign affairs, national defense, business, labor, agriculture, conservation, welfare, education, and transportation.

Political Science 103. (Formerly Government 212.) American State and Local Government. **Three hours.**

Prerequisite: Political Science 100 or 101.

Study of the institutions and processes of government of the fifty states and of the government of cities and counties.

Political Science 201. (Formerly Government 452.) Introduction to Foreign Governments. **Three hours.**

A survey of the constitutional and political characteristics of Great Britain, France, Germany, and the Soviet Union to introduce the student to the diversity of constitutional forms and political forces.

Political Science 202. (Formerly Government 413.) International Politics. **Three hours.**

An introductory survey of basic principles and forces in international politics. Emphasis is placed on the modern state system, nationalism, national power, balance of power, international economics, diplomacy, and world organization.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

(Only courses numbered 400 or above are open to graduate students)

Political Science 300. Survey of American Government. **Three hours.**

May not be taken for credit by students who have credit for Political Science 101.

This course is designed as an elective for students at the junior and senior levels who are not majors or minors in political science and who want a basic survey of American government as a part of their general background.

Political Science 305. Local Government and Administration. **Three hours.**

A survey of the history, legal basis, organization and the political and administrative functions and problems of counties, towns, special districts, municipalities and metropolitan areas.

Political Science 310. American Politics and Parties. **Three hours.**

Prerequisite: Political Science 101.

A study of pressure groups and political parties in the United States. Covers the social composition, organization, finance, and nominating processes of political parties and analyzes voting behavior.

Political Science 320. (Formerly Government 422.) Introduction to Public Administration. **Three hours.**

Prerequisite: Political Science 101 and either 102 or 103.

A study of the traditional and behavioral theories of organization, authority, decision making, intra-organization communications and application of principles to the American bureaucracy by case studies. Designed for those interested in service in government, school administration, or large industry and for students of general political science.

Political Science 330. Government and Business. **Three hours.**

Prerequisite: Political Science 101 and three additional hours in political science; or six hours in economics or American history.

This course deals with the relationship of government—national and state—to the economy of the United States with particular emphasis on assistance to and regulation of agriculture, business and labor.

Political Science 362. (Formerly Government 362.) Government of Kentucky. **Three hours.**

Designed for those students interested in how Kentucky is governed. Covers the political setting, popular control of government, constitution, legislature, governor, courts, local government, finance, functions of government, and relation to national government.

Political Science 401. (Formerly Government 351.) British Government and the Commonwealth. **Three hours.**

Prerequisite: Political Science 201 and either six additional hours of political science or six hours of English history, or graduate standing.

A study of the constitutional system and political institutions of Great Britain. Attention is given to the historical, geographical, social, and economic factors which influence the political system. The nature and development of the Commonwealth and the significance of the Commonwealth for Great Britain are examined.

Political Science 405. Government and Politics of the Far East. **Three hours.**

Prerequisite: Political Science 201, 202 and three additional hours of political science, or graduate standing.

A consideration of the modern political systems of Japan, Korea, Communist China and Nationalist China on Formosa. Some attention will also be paid to the nations of Southeast Asia.

Political Science 410. American Foreign Policy. **Three hours.**

Prerequisite: Political Science 101 and 202 and either three additional hours of political science or six hours of American History, or graduate standing.

A study of the processes and content of United States foreign policy.

Political Science 415. Workshop in International Affairs. **Three hours.**

Explores major problems in international affairs. Covers various areas of the world with reference to significant background factors and the international problems of the people. Designed especially for secondary teachers in the social science field although open also to other qualified students. Lectures and discussions led by the director and visiting lecturers. Offered only during the summer session.

Political Science 421. (Formerly Government 421.) American Constitutional Law. **Three hours.**

Prerequisite: Political Science 101 and six additional hours of political science, or graduate standing.

A study of the major provisions of the American constitution and the way in which they have been interpreted by the Supreme Court. Supreme Court opinions are read and analyzed.

Political Science 430. Municipal Government and Administration. **Three hours.**

Prerequisite: Political Science 101 and either 102 or 103 or graduate standing.

A study of the powers, organization and current problems of municipalities and urban areas.

Political Science 455. (Formerly Government 455.) History of Political Theory I. **Three hours.**

Prerequisite: Six hours in political science and six hours in history or economics, or graduate standing.

A survey of political thought from the time of Plato to the Reformation.

Political Science 456. (Formerly Government 456.) History of Political Theory II. **Three hours.**

Prerequisite: Same as for Political Science 455.

A survey of political thought from the Sixteenth Century to the present.

Political Science 457. American Political Thought. **Three hours.**

Prerequisite: Six hours in political science and six hours in economics or history, or graduate standing.

An intensive exploration of the major currents in political thought which have justified and guided the growth of the American republic. Largely organized on a chronological basis, but delves in depth into the main schools of thought that have both reflected and energized the development of the American political process.

Political Science 490. Independent Work in Political Science. **One to three hours.**

Prerequisite: Consent of Department.

Individual research and/or reading on a problem or area within the field of political science chosen by the student after consultation with the instructor. Regular reports and a final research paper are required.

SCIENCE

(Recommended curriculum for the training of teachers of the Sciences with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Orientation 100	1	Orientation 101	1
	17		18

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 211	3	Education 202	3
Military Science 201 (Men) or Elective (Women)	2	English 212	3
		Health 201	3
		Military Science 202 (Men) or Elective (Women)	2
*Physics 201	6	*Physics 202	6
Psychology 211	3		
	17 or 18		20 or 21

Third Year

Art 200	3	Biology 132 or 142	3 or 4
Biology 131 or 141	3 or 4	Education 316	2
Education 315	2	History 247	3
History 246	3	Music 271	3
Science Elective	6 or 7	Science Elective	6 or 7
	17 or 18		17 or 18

Fourth Year

Geology Elective	3	Education 364	4
Science Elective	8	Education 463	10
Elective	5	Science 410	3
	16		17

The student must take at least five additional hours each in Biology, Chemistry, and Physics. Electives must be so chosen as to include at least 18 hours of 300 and 400 courses.

* Physics 131, 132, and 203 may be substituted for Physics 201 and 202.

NONSPECIALIZED SCIENCE

LOWER DIVISION COURSES

Science 109. Physical Science 1. **Three hours.**

(Not open to students who have completed college laboratory courses in physics.)

A course designed to give to the students whose primary interests are in other fields an understanding of some basic scientific problems and their importance in the scientific age. Topics on force, energy, heat, sound, light, electricity, magnetism, electrons and nuclear phenomena give the student a broad view of the universe. Two lecture hours and two laboratory hours.

Science 110. Physical Science II. **Three hours.**

(Not open to students who have completed college laboratory courses in chemistry.)

The purpose of this course is to present some of the basic principles of chemistry and to show how chemistry affects man in both the economic and cultural areas of his life and activities. Two lecture hours and two laboratory hours.

Science 111. Biological Science I. **Three hours.**

(Not open to students who have completed college laboratory courses in biology or zoology.)

The principles of animal biology, with emphasis on the vertebrates and the basic concepts of evolution. Two lecture hours and two laboratory hours.

Science 112. Biological Science II. **Three hours.**

(Not open to students who have completed college laboratory courses in biology or botany.

The principles of plant biology, with emphasis on the angiosperms; basic concepts of reproduction in plants and inheritance. Two lecture hours and two laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Science 310. History of Science. **Three hours.**

The development of scientific concepts through the ages; contribution of science to civilization; relations of scientific developments and various philosophies; biographical sketches. Three lecture hours.

Science 351. Science for Elementary Teachers. **Three hours.**

Prerequisite: Science 109, 110, 111, 112, or equivalent.

Concepts of science, experiments and demonstrations useful to the teaching of science from Kindergarten through grade 6. Five discussion-laboratory hours.

Science 410. The Teaching of Physical Science in the High School. **Three hours.**

Prerequisite: A major or minor in the physical sciences.

A review of fundamentals of chemistry and physics, with emphasis on applications to high school teaching of chemistry, physics, and physical science. Emphasis will be placed upon techniques that are useful in teaching principles of science in the classroom and in the laboratory. Attention will be given to new concepts in science teaching, especially as they relate to new curriculum developments in secondary science education.

GRADUATE DIVISION COURSES

Science 500. The Impact of Science on Society **Three hours.**

The effects of various scientific theories and discoveries on man's thinking and modes of living. Some of the works of sech men as Aristotle, Copernicus, Kepler, Galileo, Newton, Stahl, Lavoisier, Black, Farady, Joule, Darwin, Mendel, Pasteur, Jeans, The Curies, Planck, Einstein, will be studied. The greater emphasis will be placed on the 19th and 20th centuries.

SOCIAL SCIENCE AREA

(Recommended curriculum for a major in the Area of Social Science with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Geography 101	3	History 246	3
Military Science 101 (Men) or		Military Science 102 (Men) or	
Elective (Women)	2	Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
	16		16

Second Year

English 211	3	Education 202	3
History 202	3	English 212	3
Military Science 201 (Men) or		History 203	3
		History 247	3
Elective (Women)	2	Military Science 202 (Men) or	
Political Science 101	3		
Science 109	3	Elective (Women)	2
Social Science 101	3	Psychology 211	3
	17		17

Third Year

Economics 230	3	Education 316	2
Education 315	2	European History Elective	3
Health 201	3	History 498	3
European History Elective	3	Music 271	3
Science 110	3	Political Science Elective	3
Sociology 231	3	Sociology 332	3
	17		17

Fourth Year

Economics Elective	3	Education 364	4
Geography Elective	3	Education 463	10
History 448	3	Social Science 466	3
History 499	3		
Elective	3		
	15		17

SOCIAL SCIENCE AREA

(Recommended curriculum for a major in the area of Social Science without right of teaching certificate)

First Year

First Semester	Hours
Anthropology 100	3
English 101	3
Foreign Language	3
Military Science 101 (Men) or Elective (Women)	2
Orientation 100	1
Physical Education 115	1
Science 111	3
	16

Second Semester	Hours
English 102	3
Foreign Language	3
History 246	3
Military Science 102 (Men) or Elective (Women)	2
Orientation 101	1
Physical Education 116	1
Elective	3
	16

Second Year

English 211	3
Geography 101	3
Military Science 201 (Men) or Elective (Women)	2
Political Science 101	3
Science 109	3
Social Science 101	3
	17

Art 200	3
English 212	3
History 247	3
Military Science 202 (Men) or Elective (Women)	2
Science 110	3
Sociology 231	3
	17

Third Year

Economics 230	3
English Elective	3
European History Elective	3
History 202	3
Music 271	3
Sociology 332	3
	18

Economics Elective	3
European History Elective	3
History 203	3
History 498	3
Political Science Elective	3
	15

Fourth Year

Geography Elective	3
Health 201	3
History 448	3
History 499	3
Elective	3
	15

Social Science Elective	9
Elective	7
	16

GENERAL SOCIAL SCIENCE

Social Science 100. Contemporary Social Problems. **Three hours.**

Biological, psychological, and geographic factors in human development; culture; population; problems of the family; the nature and development of education; the organization and role of modern education; recreational institutions; religious institutions; health institutions; aesthetic institutions; economic institutions and problems; the problems of government; alternative, economic and governmental systems; international relations.

Social Science 101. Contemporary Social Problems. **Three hours.**

A continuation of Social Science 100.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Social Science 466. Teaching of the Social Studies in the Secondary School. **Three hours.**

A study of the trends and objectives of the social studies; the techniques involved in the learning process; materials, both basic and supplementary to enrich the teaching; the various methods of teaching; evaluation of the learning processes; understanding of the social studies as they develop civic competence and an understanding of social relations.

GRADUATE DIVISION COURSES

Social Science 566. Teaching of the Social Sciences in Secondary Schools. **Two hours.**

An advanced methods course which will discuss and demonstrate the use of new methods and materials and provide a laboratory experience for the implementation of these new methods and materials.

SOCIOLOGY

(Recommended curriculum for a major in Sociology with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Elective	3	Social Science 101	3
		Elective	3
	16		19

Second Year

English 211	3	Education 202	3
History 246	3	English 212	3
Military Science 201 (Men) or Elective (Women)	2	History 247	3
		Military Science 202 (Men) or Elective (Women)	2
Science 109	3	Psychology 211	3
Sociology 231	3	Science 110	3
Elective	3		
	17		17

Third Year

Education 315	2	Education 316	2
Health 201	3	Music 271	3
Sociology 320	3	Sociology 330	3
Sociology 350	3	Sociology 445	3
Sociology Elective	3	Sociology Elective	3
Elective	3	Elective	3
	17		17

Fourth Year

Sociology 455	3	Education 364	4
Sociology 465	3	Education 463	10
Elective	10	Social Science 466	3
	16		17

Recommended Curriculum for a Second Major in Sociology

A student with a major in another department may take a second major in Sociology by completing the same courses in Sociology as required for a first major.

Recommended Curriculum for a Minor in Sociology

A student with a major and a minor in other departments may take the following courses for a minor in Sociology: Sociology 231, 320, 330, 455, and six hours elective in Sociology.

SOCIOLOGY

(Recommended Curriculum for a major in Sociology without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	English 102	3
English 101	3	Foreign Language	3
Foreign Language	3	Military Science 102 (Men) or Elective (Women)	2
Military Science 101 (Men) or Elective (Women)	2	Orientation 101	1
Orientation 100	1	Physical Education 116	1
Physical Education 115	1	Science 112	3
Science 111	3	Social Science 101	3
	16		16

Second Year

English 211	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Science 109	3	Psychology 211	3
Sociology 231	3	Science 110	3
Elective	3	Elective	3
	17		17

Third Year

Art 200	3	Music 271	3
Health 201	3	Sociology 330	3
Sociology 320	3	Sociology 445	3
Sociology 350	3	Elective	6
Sociology Elective	3		
	15		15

Fourth Year

Sociology 455	3	Sociology Elective	6
Sociology 465	3	Elective	10
Elective	10		
	16		16

Recommended Curriculum for a Second Major in Sociology

A student with a major in another department may take a second major in Sociology by completing the same courses in Sociology as required for a first major.

Recommended Curriculum for a Minor in Sociology

A student with a major and a minor in other departments may take the following courses for a minor in Sociology: Sociology 231, 320, 330, 455, and six hours elective in Sociology.

Social Work: Students preparing for the field of social work should take the above major and include Sociology 370 and 415 in their Sociology electives. Minors should be selected from the following: Economics, Political Science, Psychology.

SOCIOLOGY

LOWER DIVISION COURSES

Sociology 231. Human Society. **Three hours.**

A systematic study of the fundamental concepts and principles of sociology; the nature of culture and society; social interaction; forms of collective behavior; communities; social organization and institutions; social change.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Sociology 320. Self in Society and Culture. **Three hours.**

Prerequisite: Sociology 231 or consent of instructor.

A cross-disciplinary approach to the present knowledge of the process of socialization, the formation of personality and the meaning of self.

Sociology 330. Analysis of Social Systems. **Three hours.**

Prerequisite: Sociology 231 or consent of instructor.

An analysis of stratification and of political, economic and religious systems largely within American society.

Sociology 332. (Formerly called Current Social Problems.) Urbanization of World Societies. **Three hours.**

Prerequisite: Sociology 231 or equivalent.

A study of urbanization in the modern world; characteristics of the pre-industrial city, past and present; effect of industrialization; transition to urban life; characteristics of urban communities; social problems resulting from transition; study of specially selected world areas to illustrate problems of urban and industrial growth.

Sociology 335. (Formerly called Social Deviation and Social Change.) Deviant Behavior. **Three hours.**

Prerequisite: Sociology 231 or consent of instructor.

An analysis of deviant behavior, juvenile delinquency, adult criminality, and corrective systems and their relationship to the total society.

Sociology 345. The Family in Cross-Cultural Perspective. **Three hours.**

Prerequisite: Sociology 231.

An analysis of the role and function of the family as a social institution in various cultures.

Sociology 350. Social Anthropology. **Three hours.**

Prerequisite: Sociology 231 or equivalent.

The use of the comparative approach in the analysis of structure, function, and change in social and cultural systems; the development of generalizations concerning human society, based on a comparison of social institutions in various cultures with particular emphasis on nonliterate peoples. (Same as Anthropology 350.)

Sociology 360. The Community. **Three hours.**

Prerequisite: Sociology 231 and 330 or consent of instructor.

The origin and development of communities; community types, organization, and functions. (Same as Anthropology 360.)

Sociology 370. The Field of Social Work. **Three hours.**

Prerequisite: Twelve hours in Sociology.

Function, method, and philosophy of contemporary social work will be considered in relation to the various divisions of the field.

Sociology 410. Political Sociology. **Three hours.**

Prerequisite: Consent of instructor.

An advanced course dealing with the development of political sociology, its methods, models and theories.

Sociology 415. Methods in Social Work. **Three hours.**

Prerequisite: Sociology 370.

The methods used in the various fields of social work and the relationship of social work to community organization and public welfare.

Sociology 445. History of Theory on Society and Culture. **Three hours.**

Prerequisite: Sociology 231, 320 and 330 or consent of instructor.

A chronological analysis of the major theories on society and culture from earliest times through the 1920's. (Same as Anthropology 445.)

Sociology 450. Sociocultural Dynamics. **Three hours.**

Prerequisite: Twelve hours in Sociology or Anthropology or consent of instructor.

An analysis of the various theories of social and cultural change and their relevance to the ongoing social process; an analysis of such concepts as innovation, diffusion, and acculturation in relation to these theories; a consideration of factors involved in maintaining stability or stimulating change. (Same as Anthropology 450.)

Sociology 455. Contemporary Theory on Society and Culture. **Three hours.**

Prerequisite: Sociology 231, 320 and 330 or consent of instructor. Sociology 445 strongly recommended.

A systematic analysis of the current major theories on society and culture with emphasis on their importance in research. (Same as Anthropology 455.)

Sociology 465. Methodology in Anthropology and Sociology. **Three hours.**

Prerequisite: Sociology 231, 320 and 330 or consent of instructor.

An introduction to the various research methods, both field and library, used in anthropology and sociology. Such topics as delimiting the problem, establishing hypotheses, designing the study, collecting and analyzing the data, and writing the research report will be covered. (Same as Anthropology 465.)

Sociology 490. Tutorial in Sociology. **One to three hours.**

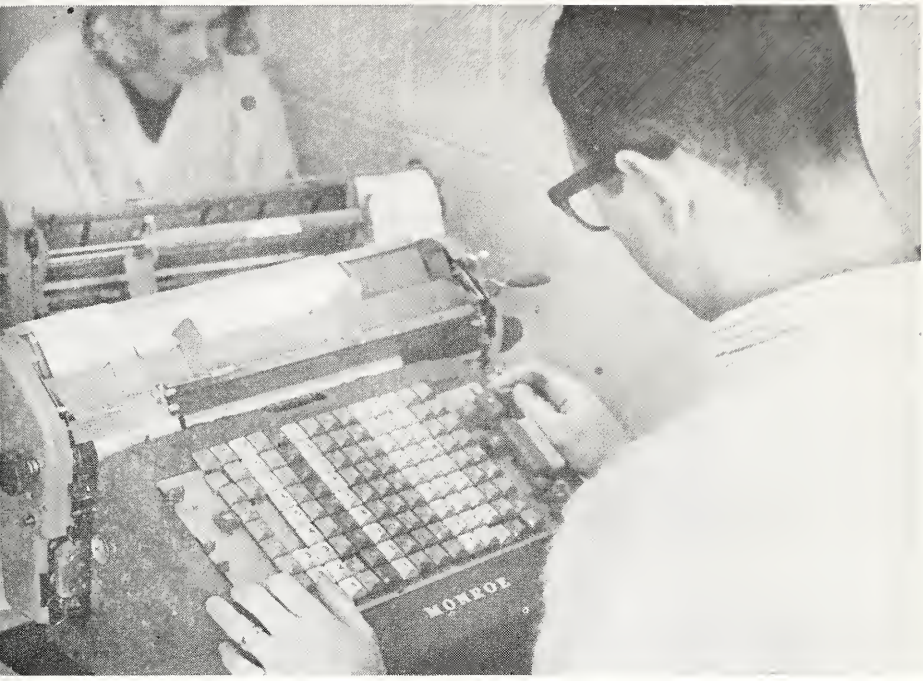
Prerequisite: Twelve hours in Sociology and consent of instructor.

Individual reading and research on a problem or area within the field of sociology chosen by the student after consultation with the instructor. The student's work will culminate in a research paper or essay. (May be repeated for a maximum of six hours.)

Sociology 495. Proseminar in Anthropology and Sociology. **Two hours.**

Prerequisite: Eighteen hours in Anthropology and Sociology or consent of instructor.

A topic of major importance in the fields of Anthropology and Sociology will be selected for intensive investigation. Topic will change from semester to semester. (May be repeated for a maximum of six hours.) (Same as Anthropology 495.)



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Business

Accounting 188

Business 190

Business Education 193

Economics 195

BUSINESS

The School of Business offers the following four-year programs:

Area in Business specializing in Accounting	56 hours
Area in Business specializing in Economics	56 hours
Area in Business specializing in General Business	56 hours
Area in Business specializing in Teacher Education	48 hours
Major in Economics	36 hours
Major in General Business	36 hours
Major in Business Teacher Education	30 hours
Minor in Business Teacher Education	18-19 hours
Minor in Economics	18 hours

The department offers a two-year Executive Secretarial Program, and a one-year secretarial program leading to a Certificate in Secretarial Science. In addition, the department also offers a two-year program in Data Processing.

Many students expecting to enter law school find business programs excellent pre-legal education. A special advisor within the department is provided for pre-legal students.

An area or major in Business (other than those leading to teaching certificates and the major in economics) must include Economics 230 and 231; Accounting 125, 126, Business 240, 308, 324, 344, 391, and 405; Business Education 301.

Classification of Business Courses

For certification purposes business courses are classified as follows:

Accounting: 125, 126, 225, 226, 227, 228, 320, 321, 322, 323, 421, 425, 441.

Business Education: 115, 116, 151, 152, 202, 203, 253, 254, 301, 461a, 461b, 561, 562, 563, 564, 565.

General Business: 101, 161, 162, 171, 172, 239, 240, 261, 262, 271, 272, 274, 281, 282, 308, 310, 312, 324, 341, 343, 344, 351, 352, 361, 362, 391, 405, 406, 430, 431, 440, 442, 443, 445.

Economics courses may be counted as Social Science.

Majors in Business (Teaching)

With emphasis in Accounting:

The following courses are required: Economics 230; Accounting 125, 126, and nine additional hours in accounting; Business Education 151, 152, and 461b; Business 405, and three hours elective in Business.

With emphasis in Secretarial Practice:

The following courses are required: Economics 230; Accounting 125, 126; Business Education 115, 116, 151, 152, 202, 253, 254, 301, and 461a.

With emphasis in General Business:

The following courses are required: Economics 230 and 231; Accounting 125, 126; Business Education 151, 152, 461b; Business 324, 405; and six hours of elective in Business.

Minors in Business (Teaching)

With emphasis in Accounting:

The following courses are required: Accounting 125, 126, and six additional hours in accounting; Business 405; Business Education 151, 152.

With emphasis in Secretarial Practice:

The following courses are required: Accounting 125; Business Education 115, 116, 151, 152, 202, 253.

With emphasis in General Business:

The following courses are required: Economics 230 and 231; Accounting 125; Business Education 151, 152; Business 240, 405.

BUSINESS

Area in Business specializing in Accounting

First Year

First Semester	Hours
Accounting 125	3
English 101	3
Military Science 101 (Men) or Elective (Women)	2
Orientation 100	1
Physical Education 115	1
Science 111	3
Social Science 100	3
	16

Second Semester	Hours
Accounting 126	3
English 102	3
Mathematics 107	3
Military Science 102 (Men) or Elective (Women)	2
Orientation 101	1
Physical Education 116	1
Science 112	3
Social Science 101	3
	19

Second Year

Accounting 225	3
Accounting 227	3
Economics 230	3
English 211	3
History 246	3
Military Science 201 (Men) or Elective (Women)	2
	17

Accounting 226	3
Economics 231	3
English 212	3
Health 201	3
History 247	3
Military Science 202 (Men) or Elective (Women)	2
	17

Third Year

Accounting 320	3
Art 200	3
Business 240	3
Business 324	3
Science 109 or 110	3
	15

Accounting 321	3
Accounting 322	3
Business 405	3
Business Education 301	3
Music 271	3
	15

Fourth Year

Accounting 421	3
Accounting 441	3
Business 308	3
Psychology 211	3
Elective	3
	15

Business 344	3
Business 391	3
Elective	9
	15

BUSINESS

Area in Business specializing in Teacher Education

First Year

First Semester	Hours	Second Semester	Hours
Accounting 125	3	Accounting 126	3
*Business Education 151 or 152	2	Business Education 152 or 253	2
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
	18		18

Second Year

**Business Education 115 or 116	3	Business Education 116 or 202	3
Business Ed. 253 or elective	2	Economics 231	3
Economics 230	3	Education 202	3
English 211	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
		Psychology 211	3
	16		20

Third Year

Art 200	3	Business Education 203	3
Business 324	3	Business Education 301	3
Business Ed. 202 or elective	3	Education 316	2
Education 315	2	Music 271	3
Health 201	3	Science 110	3
Science 109	3	Elective	3
	17		17

Fourth Year

Business Education 461a	2	Business 405	3
Business Education 461b	2	Business Elective	3
Education 364	4	Elective	9
Education 463	10		
	18		15

* Students who have had typewriting previously should take Business Education 152.

** Students who have had shorthand previously should take Business Education 116.

BUSINESS

Area in Business specializing in Economics

First Year

First Semester	Hours
Accounting 125	3
English 101	3
Military Science 101 (Men) or Elective (Women)	2
Orientation 100	1
Physical Education 115	1
Science 111	3
Social Science 100	3
	16

Second Semester	Hours
Accounting 126	3
English 102	3
Mathematics 107	3
Military Science 102 (Men) or Elective (Women)	2
Orientation 101	1
Physical Education 116	1
Science 112	3
Social Science 101	3
	19

Second Year

Art 200	3
Economics 230	3
English 211	3
History 246	3
Military Science 201 (Men) or Elective (Women)	2
Science 109 or 110	3
	17

Economics 231	3
English 212	3
History 247	3
Military Science 202 (Men) or Elective (Women)	2
Music 271	3
Psychology 211	3
	17

Third Year

Business 240	3
Business 324	3
Business 391	3
Economics Elective	6
	15

Business 344	3
Business 405	3
Business Education 301	3
Economics Elective	3
Health 201	3
	15

Fourth Year

Business 308	3
Economics 493	3
Economics Elective	9
	15

Economics Elective	3
Electives	12
	15

BUSINESS

Area in Business specializing in General Business

First Year

First Semester	Hours
Accounting 125	3
English 101	3
Military Science 101 (Men) or Elective (Women)	2
Orientation 100	1
Physical Education 115	1
Science 111	3
Social Science 100	3
	16

Second Semester	Hours
Accounting 126	3
English 102	3
Military Science 102 (Men) or Elective (Women)	2
Orientation 101	1
Physical Education 116	1
Science 112	3
Social Science 101	3
	16

Second Year

Economics 230	3
English 211	3
Health 201	3
History 246	3
Military Science 201 (Men) or Elective (Women)	2
Science 109 or 110	3
	17

Business 240	3
Economics 231	3
English 212	3
History 247	3
Military Science 202 (Men) or Elective (Women)	2
Science or Mathematics Elective	3
	17

Third Year

Art 200	3
Business 324	3
Business 391	3
Business 405	3
Business Education 301	3
	15

Business 308	3
Business 344	3
Music 271	3
Psychology 211	3
Elective	3
	15

Fourth Year

Elective	16
	16

Elective	16
	16

TWO-YEAR DATA PROCESSING PROGRAM

First Year

First Semester	Hours
Accounting 125, Principles of Accounting	3
Business 101, Introduction to Business	3
Business 161, Unit Data Processing I	3
Business 171, Electronic Data Processing—Basic Concepts	3
English 101, Spoken and Written Communication I	3
Military Science 101, Introduction to Military Science	2
Orientation 100, College Orientation	1
	18

Second Semester	
Accounting 126, Principles of Accounting	3
Business 162, Unit Data Processing II	4
Business 172, Electronic Data Processing—Machine Language	3
Business Education 151 or 152, Typewriting	2
English 102, Spoken and Written Communication II	3
Military Science 102, Basic Military Training	2
Orientation 101, College Orientation	1
	18

Second Year

First Semester	
Accounting 227, Cost Accounting	3
Business 261, Flow Charting	3
Business 271, Electronic Data Processing—Symbolic Programming	4
Business 281, Data Representation	3
Economics 230, Principles of Economics I	3
Military Science 201, Second Year Basic Military Training	2
	18

Second Semester	
Business 262, Systems Analysis	3
Business 272, Electronic Data Processing—Special Techniques	4
Business 274, Information Theory	3
Business 282, Logic Concepts	3
Economics 231, Principles of Economics II	3
Military Science 202, Second Year Basic Military Training	2
	18

EXECUTIVE SECRETARIAL PROGRAM
(A two-year program for women students)

First Year

First Semester	**Hours**
Business 101, Introduction to Business	3
Business Education 115, Beginning Shorthand	3
Business Education 151, Beginning Typewriting	2
English 101, Spoken and Written Communication I	3
Orientation 100, College Orientation	1
Physical Education 115, Fundamental Physical Education Activities	1
Social Science 100, Contemporary Social Problems	3
	16

Second Semester	
Business Education 116, Intermediate Shorthand	3
Business Education 152, Intermediate Typewriting	2
Business Education 254, Office Appliances and Procedures	3
English 102, Spoken and Written Communication II	3
Orientation 101, College Orientation	1
Physical Education 116, Fundamental Physical Education Activities	1
Social Science 101, Contemporary Social Problems	3
	16

Second Year

First Semester	
Accounting 125, Principles of Accounting	3
Business Education 202, Dictation and Transcription	3
Business Education 253, Advanced Typewriting	2
Economics 230, Principles of Economics I	3
History 246, History of Western Civilization	3
Elective	3
	17

Second Semester	
Accounting 126, Principles of Accounting	3
Business Education 203, Secretarial Practice	3
Business Education 301, Business English	3
Economics 231, Principles of Economics II	3
History 247, History of Western Civilization	3
	15

This program must be completed with a "C" average or better.

CERTIFICATE IN SECRETARIAL SCIENCE
(A one-year program for women students)

First Year

First Semester	**Hours**
Accounting 125, Principles of Accounting	3
Business Education 116, Intermediate Shorthand	3
Business Education 152, Intermediate Typewriting	2
Business Education 254, Office Appliances and Procedures	3
English 101, Spoken and Written Communication I	3
Orientation 100, College Orientation	1
Physical Education 115, Fundamental Physical Education Activities	1
	16
Second Semester	
Accounting 126, Principles of Accounting	3
Business Education 202, Dictation and Transcription	3
Business Education 203, Secretarial Practice	3
Business Education 253, Advanced Typewriting	2
English 102, Spoken and Written Communication II	3
Orientation 101, College Orientation	1
Physical Education 116, Fundamental Physical Education Activities	1
	16

This program must be completed with a "C" average or better. It is assumed that students have had some typewriting and shorthand in high school so that they may start in the second semester of each. If students have not had previous typewriting or shorthand, summer study of five hours will be necessary. In such cases the students will substitute Business Education 151, Beginning Typewriting, two hours, or Business Education 115, Beginning Shorthand, three hours, in place of the shorthand or typewriting courses shown above for the first semester.

SCHOOL OF BUSINESS

ACCOUNTING

LOWER DIVISION COURSES

Accounting 125. Principles of Accounting. **Three hours.**

Form and construction of accounting statements, analysis of business transactions; recording in journals; posting to ledgers; adjusting entries; closing entries; reversing entries; working sheets; special problems of single proprietorship; and accounting concepts and principles.

Accounting 126. Principles of Accounting. **Three hours.**

Prerequisite: Accounting 125.

Payrolls and payroll taxes; property and sales taxes; partnership accounting; nature and characteristics of the corporation; corporation accounts and records; corporate earnings; corporation securities; accounting for manufacturing; departmental accounting; branch accounting; budgets; analysis and interpretation of financial statements; accounting for management.

Accounting 225. Principles of Accounting—Intermediate. **Three hours.**
Prerequisite: Accounting 126.
Accounting statements; the recording process; the periodic summary; cash and temporary investments; receivables; inventories; current liabilities; investments in stocks, bonds, funds and miscellaneous items.

Accounting 226. Principles of Accounting—Intermediate. **Three hours.**
Prerequisite: Accounting 225.
The acquisition, use, and retirement of plant and equipment; depreciation, depletion, and revaluations of plant and equipment; intangible assets and deferred charges; long-term liabilities; capital stock; surplus; statements from incomplete data; errors and their correction; statement analysis; statement of application of funds.

Accounting 227. Cost Accounting. **Three hours.**
Prerequisite: Accounting 126.
The field of cost accounting; cost flow, cost elements, cost classification and cost system; the cost accounting cycle; the voucher system and the factory ledger; elements of cost; applied manufacturing expense; actual manufacturing expense; departmentalized manufacturing expenses; process cost accounting; the costing of by-products and joint products. A job order cost set of books is worked by the students.

Accounting 228. Specialized and Advanced Cost Accounting. **Three hours.**
Prerequisite: Accounting 227.
Estimated cost systems; budgetary control with standard costs; cost control through cost reports; analysis and control of distribution costs; gross profit analysis; break-even analysis; profit-volume analysis; direct costing.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Accounting 320. Principles of Accounting—Advanced. **Three hours.**
Prerequisite: Accounting 226.
Partnerships—formation and operation; special partnership problems; joint ventures; installment sales; consignments; home office and branch relationships; corporate combination; consolidated balance sheet.

Accounting 321. Principles of Accounting—Advanced. **Three hours.**
Prerequisite: Accounting 320.
Special problems with consolidated balance sheets; consolidated income and surplus statement; foreign branches and subsidiaries; statement of affairs; receiverships; statement of realization and liquidation; estates; trusts; governmental units; actuarial science.

Accounting 322. Income Tax Accounting. **Three hours.**
Prerequisite: Accounting 126.
Income tax legislation—Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends; deductions; withholding; partnerships; corporations. Students will have experience filling out income tax return forms.

Accounting 323. Advanced Tax Accounting. **Three hours.**
Prerequisite: Accounting 322.
Federal income tax report preparation with emphasis on corporate returns; estates and trusts; gift and estate taxes; special problems in preparation of federal tax returns.

Accounting 421. Government Accounting. **Three hours.**
Prerequisite: Accounting 126.
Accounting procedures used by federal, state and local government agencies; general and special funds; budget preparation and administration; report preparation; inter-fund adjustments; analysis of statements.

Accounting 425. Accounting Problems. **Two hours.**

Prerequisite: Accounting 226.

This is an advanced course in accounting and the contents will be determined by the needs of the students registering for it. Taught by announcement.

Accounting 441. Auditing: **Three hours.**

Prerequisite: Accounting 226.

Preliminary arrangements for an audit; general procedure of an audit; the original records; the asset accounts; the liability accounts; operating accounts; the audit report. An auditing problem is worked to illustrate the principles discussed in class.

BUSINESS

LOWER DIVISION COURSES

Business 101. Introduction to Business. **Three hours.**

Functional areas of business administration; forms of business organization, factors in the location of an enterprise; risk bearing; and control systems used in business. For the student who has no background in business.

Business 161. Unit Data Processing I. **Three hours.**

Methods of data representation; preparation of data in-put; and functions and control of key-punch, interpreter, sorter, collator, and reproducer.

Business 162. Unit Data Processing II. **Four hours.**

Prerequisite: Business 161.

Control of accounting machine and summary punch; preparation of reports; and adaptation of record keeping systems to punch card equipment.

Business 171. Electronic Data Processing—Basic Concepts. **Three hours.**

Organization and functions of an electronic computer; types of command structure; forms of data representation; arithmetic processing; decision function; and looping principles.

Business 172. Electronic Data Processing—Machine Language. **Three hours.**

Prerequisite: Business 171.

Programming an actual computer using the command structure of the machine; coding techniques.

Business 239. Mathematics of Finance. **Three hours.**

Prerequisite: Mathematics 107.

Bank discount; true discount and present value; exact interest; logarithms; equation of accounts; domestic and foreign exchange; series annuities; cumulative sinking funds; cumulative amortization plans; building and loan association calculations; industrial loans.

Business 240. Princples of Management. **Three hours.**

Prerequisite: Accounting 126.

The general principles of management: planning, organization, control; location, equipment, and maintenance of factory buildings; plant layout and machine arrangement, job analysis, motion and time study, production control, and budgets.

Business 261. Flow Charting. **Three hours.**

Prerequisites: Business 162 and 172.

Problems in flow charting various business routines.

Business 262. Systems Analysis. **Three hours.**

Prerequisite: Business 261.

Study of existing business systems to determine elements that influence re-design of the system for use with electronic computer.

Business 271. Electronic Data Processing—Symbolic Programming. **Four hours.**

Prerequisite: Business 172.

Fortran, algol, and cobol programming.

Business 272. Electronic Data Processing—Special Techniques. **Four hours.**

Prerequisite: Business 271.

Handling random access data; overlap; and in-put and out-put problems.

Business 274. Information Theory. **Three hours.**

Prerequisite: Business 271.

Economy in communication, noise, redundancy, and transmission problems.

Business 281. Data Representation. **Three hours.**

Prerequisite: Business 274.

Number systems; validity checking, error recognition; serial and parallel arithmetic processing; operation in multiple modes.

Business 282. Logic Concepts. **Three hours.**

Prerequisite: Business 281.

Logic patterns used in electronic computers.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Business 308. Corporation Finance. **Three hours.**

Prerequisites: Economics 231 and Business 324.

The subject matter of this course covers the following matters pertaining to the private, profit-seeking corporate enterprise: (1) the acquisition of funds of property with which to operate: (2) sources of more permanent types of capital supply—namely, stocks and bonds; (3) sources of temporary capital needs and the essential practices of short-term credit institutions; (4) the management of the corporate net income; (5) alteration of the financial structure of the corporation on a voluntary or involuntary basis for the purpose of improving its financial standing.

Business 310. Principles of Risk and Insurance. **Three hours.**

Prerequisite: Junior standing.

This course is designed to assist the student to acquire a sufficient understanding of the principles and coverages of insurance to enable him intelligently to plan a satisfactory program of insurance for his personal needs or his business responsibilities. The following subjects are considered: The nature of risk and methods of risk assumption; fire insurance; transportation insurance; casualty insurance; life insurance; and fidelity and surety bonds.

Business 312. Cases in Business Management. **Three hours.**

Prerequisite: Business 240.

Personnel management; business organization; policy and planning; wage payment; financial records and statements; purchases and sales; production control; and related problems.

Business 324. Money and Banking. **Three hours.**

Prerequisite: Economics 231.

Nature and functions of money; kinds of money; monetary systems; history of banking; functions of the bank; bank administration; the national banking system; deposits and depositors; the clearing house; domestic and foreign exchange; loans and discounts; bank supervision; savings banks; trust companies; foreign banking system; the federal reserve system; central banking policies and practices; monetary and fiscal policies both nationally and internationally.

Business 341. Salesmanship. **Three hours.**

Prerequisite: Junior standing.

The art of selling; the motive behind all buying; the customer's mental journey; attitudes of buyer and salesman; preparation of the selling talk; the pre-approach; the interview; arousing interest; creating desire; answering objections; meeting excuses; diplomacy of the close; types of customers.

Business 343. Advertising. **Three hours.**

Prerequisite: Junior standing.

The specific purpose of advertising; developing the copy; slogans; trademarks; layouts; engraving; scheduling of advertisements in newspapers and magazines; direct mail advertising; outdoor advertising; dealer display advertising; economic aspects of advertising; federal laws affecting advertising.

Business 344. Marketing. **Three hours.**

Prerequisites: Economics 231 and junior standing.

Consumers' buying; marketing functions and institutions; selling direct to consumer; earlier and simpler types of retail institutions; department stores; mail-order houses; chain stores; agricultural wholesaler; raw materials; cooperative marketing; speculation; prices and some price policies; brands and brand policies; ethical aspects of marketing.

Business 351. Personnel Management. **Three hours.**

Prerequisite: Business 240.

Principles of scientific personnel management in factory, store, and office; job analysis, description, and classification; personnel selection, maintenance, and training; promotion; labor turnover, working hours and wage policies; health and safety of employees.

Business 352. Organization and Operation of the Small Business. **Three hours.**

Prerequisite: Business 240.

The opportunities for the organization and operation of the small business; organization, location, financial planning; records; unit costs; merchandising; credits; personnel; opportunities in various fields considered.

Business 361. Unit Data Processing. **Three hours.**

Prerequisites: Junior standing and permission of the instructor.

Application of punched-card systems to business record keeping; forms of representing data; functions of the various equipment items; preparation of reports; design of systems.

Business 362. Electronic Data Processing. **Three hours.**

Prerequisite: Business 361.

Programming electronic computers; input-output media; systems analysis and design.

Business 391. Statistical Methods. **Three hours.**

Prerequisite: Junior standing.

The course will consider such as the following: Frequency distributions; measures of location; measures of variation; probability; theoretical distributions; sampling distributions; problems of estimation; tests of hypotheses; problems of sampling; linear regression; correlation; index numbers; time series analysis.

Business 405. Business Law. **Three hours.**

Prerequisite: Junior standing.

Law in general; kinds of law; persons; torts; contracts; personal property; real property; forms of business organization.

Business 406. Business Law. **Three hours.**

Prerequisite: Business 405.

Bailments; sales of personal property; market practices; negotiable contract, suretyship and guaranty; privilege of debtors; labor relations.

Business 430. Public Finance and Taxation I. **Two hours.**

Prerequisites: Economics 231 and Business 324.

Distribution of government burdens; the general property tax; modified property tax; shifting and incidence of taxation; the income tax; death and gift taxes; taxes upon business; consumption taxes; motor vehicle taxes; and poll tax; social security taxes; taxes on natural resources; non-tax revenue.

Business 431. Public Finance and Taxation II. **Two hours.**

A continuation of Business 430.

The power to tax; tax limitations; inter-governmental relations in taxation; public expenditures; state and federal aid; economy in expenditures; problems of public borrowing; fiscal administration.

Business 440. Investments. **Three hours.**

Prerequisite: Business 324.

Characteristics of bonds; characteristics of stocks; securities market; investment banking; sources of investment information; interpreting financial news; taxation of securities; investors of limited means; analysis of securities.

Business 442. Sales Promotion. **Three hours.**

Prerequisite: Business 344.

Managerial control of sales development through the coordination of advertising and sales force operations with particular reference to direct mail advertising, sampling, premiums, sales and consumer contests, consumer education and dealer relations.

Business 443. Market Research. **Three hours.**

Prerequisite: Business 344.

The use of secondary research resources; building of bibliographies; preparation of reports for executives and clients.

Business 445. Marketing Management. **Three hours.**
Prerequisite: Six hours of marketing.
Coordinates marketing techniques and policies in the major marketing fields. In addition, it is specifically concerned with determining policies and procedures in merchandising; selecting distribution channels; defining, locating, and reaching the market; determining marketing budgets; integrating advertising, personal selling and sales promotion; using and evaluating market research.

BUSINESS EDUCATION

LOWER DIVISION COURSES

***Business Education 115.** Beginning Shorthand. **Three hours.**
Prerequisite: Business Education 151 or its equivalent.
Principles of Gregg shorthand; dictation and transcription. Any student who has received at least one unit of high school credit in shorthand will not be permitted to take Business Education 115 for credit.

Business Education 116. Intermediate Shorthand. **Three hours.**
Prerequisites: Business Education 115 and 152, or their equivalents.
A continuation of Business Education 115 with increased emphasis on dictation and speed building techniques.

***Business Education 151.** Beginning Typewriting. **Two hours.**
Speed building techniques; knowledge and care of the machine; personal and business letters; use of carbon paper; tabulating; term papers and notebooks.
Any student who has received at least one unit of high school credit in typewriting will not be permitted to take Business Education 151 for credit.

Business Education 152. Intermediate Typewriting. **Two hours.**
Prerequisite: Business Education 151 or its equivalent.
Speed building; business papers; manuscripts, reports; mimeograph; tabulation.

Business Education 202. Dictation and Transcription. **Three hours.**
Prerequisite: Business Education 116.
Shorthand vocabulary building; dictation; transcription of shorthand notes on the typewriter.

Business Education 203. Secretarial Practice. **Three hours.**
Prerequisite: Business Education 116.
This course is designed to train professional secretaries and to develop skills for secretarial competency and efficiency. The student is given experience in a variety of specialized secretarial duties.

Business Education 253. Advanced Typewriting. **Two hours.**
Prerequisite: Business Education 152, or its equivalent.
Increased emphasis upon advanced typewriting problems. Production typewriting is stressed.

Business Education 254. Office Appliances and Procedures. **Three hours.**
Principles and practices of use of various figuring and calculating machines.

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* These courses are planned for students who have had no previous study in typewriting and shorthand.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Business Education 301. Business English. **Three hours.**
Prerequisite: Junior standing.
The essential qualities of business writing; the sales letter; appeals to special classes; follow-up letters; inquiries, orders and responses; credit letters; collection letters; adjustment letters; letters of application; business reports; style studies.

Business Education 461a. Materials and Methods in Teaching Secretarial Subjects. **Two hours.**

Prerequisites: Business Education 116 or equivalent and Business Education 253.

Different methods, techniques and devices for teaching shorthand, typewriting, and office practice.

Business Education 461b. Materials and Methods in Teaching Bookkeeping and General Business. **Two hours.**

Prerequisites: Accounting 126 or its equivalent and two courses in Business.

Different methods, materials and techniques used in the teaching of bookkeeping and general business subjects are emphasized.

GRADUATE DIVISION COURSES

Business Education 561. Improvement of Instruction in Bookkeeping and General Business. **Two hours.**

Business Education 562. Improvement of Instruction in the Skill Subjects. **Two hours.**

Business Education 563. Principles of Business Education. **Three hours.**

Objectives, principles, curricula, trends, and major problems of business education on the secondary level. For students preparing to teach business subjects.

Business Education 564. Seminar in Business Education. **Two hours.**

Prerequisite: Business Education 563.

Reading and discussion relating to the major current problems in business education.

Business Education 565. Administration of a Business Education Department. **Two hours.**

Prerequisite: Business Education 563.

Problems in layout, equipment, curriculum planning, supervision, and testing, in business education departments.

ECONOMICS

LOWER DIVISION COURSES

Economics 230. Principles of Economics I. **Three hours.**

The foundations of economic analysis; what economics is about; an introductory look at American economy; private enterprise; profits and the price system; straight thinking in economics; national income, production, and employment; changing price levels; inflation and deflation; money and the banking system; the Federal Reserve System and the money supply; the modern theory of income, employment, and prices; the role of money; the foundations of economic growth, aggregate demand, savings, and investment; economic fluctuations; monetary policy; fiscal policy; the practical problems of stabilization policy.

Economics 231. Principles of Economics II. **Three hours.**

Prerequisite: Economics 230.

Business enterprise in the modern economy; the role of the consumer; demand, supply, and market prices; the business firm and its costs; competitive output and price in the short run; long-run competitive equilibrium; agriculture—a case study in competition; monopoly, monopolistic competition; oligopoly and the mixed economy; government and business; how income is distributed; wages and salaries; labor unionism and collective bargaining; government and labor; rent and interest; profits; wages, profits, and stable economic growth; the public economy in action; taxes, international trade and lending; international monetary and financial policy; commercial policy; international adjustments and the balance of payments.

Economics 260. Consumers Economics. **Three hours.**

The role of consumers in economic life; consumers; choice; who guides consumers; freedom of choice; custom-made wants; choosing goods for display; fashion-made wants; imitative wants; producer-made wants; the profitable practice of fraud; price appeal; making it easy to buy; consumer education; planning expenditures; intelligent buying; cooperative buying; buying protection; buying shelter; buying investments; producer aids to consumers; standards of consumers; governmental aids to consumers.

May not be included in a business or economics area, major, or minor without approval of the department chairman.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Economics 333. Economics of Labor. **Three hours.**

Prerequisite: Economics 231.

The labor force; trade-union growth; structure and government of the local unit; structure and government of the national unit; structure and government of the federations; trade-union collective bargaining; management; dealing with organized labor; dealing with unorganized labor; government policy toward collective bargaining; government policy toward the individual worker; the operation of the labor market; wages; seasonal aspects of employment; cyclical aspects of employment; technological aspects of employment; a full employment economy; the distribution of income.

Economics 350. National Income. **Three hours.**

Prerequisite: Economics 231.

A treatment of basic concepts and composition of our national income account, involving a detailed analysis of the strong and weak points of our type of social accounting.

Economics 394. International Economics. **Three hours.**

Prerequisites: Economics 231 and Business 324.

An introduction to the field of international trade, payments, and commercial policy. Topics included are: Theory of international trade, balance of international payments, foreign exchange, tariffs and other trade barriers, and current international economic problems and policies of the United States. The course concludes with a brief study of such international organizations and agreements as the International Monetary Fund, International Bank for Reconstruction and Development, other international financial institutions, and General Agreements on Tariffs and Trade.

Economics 410. American Economic History. **Three hours.**

Historical development of commerce, industry, transportation, banking, labor problems, business organization, monetary problems, and agriculture in the United States from the settlement of the nation to the Civil War.

Economics 411. American Economic History. **Three hours.**

Historical development of commerce, industry, transportation, banking, labor problems, business organization, monetary problems, and agriculture in the United States from the Civil War period to the present.

Economics 432. Alternative Economic Systems. **Three hours.**

Prerequisite: Economics 231.

A somewhat detailed treatment of such topics as the following: Capitalism; Utopian forerunners; the Marxian theory of socialism and communism; modern socialism and communism; British socialism; the economy of the Soviet Union; Fascism as existed in Italy and Germany; the Consumers' Cooperative Movement.

Economics 492. Business Cycles. **Three hours.**

Prerequisite: Economics 231.

This course will deal with such as the following: Economic decision-making; growth, instability, inflation, and change; long-run growth; short-run fluctuations; personal spending and saving decisions; saving and spending in the business sector; government expenditure and tax patterns; the total flow of spending; prices, output, and employment; the cyclical pattern; problems and procedures in forecasting; dynamic policies for business; dynamic policies for individuals.

Economics 493. Intermediate Economic Theory and Analysis. **Three hours.**

Prerequisite: Economics 231.

A development of the leading theories and analyses of value and distribution. Problems and policies of price determination of both the firm and the industry and factor pricing are considered at the intermediate level of analysis.

Economics 495. The Economics of Growth and Development. **Three hours.**

Prerequisite: Economics 350.

The measurement of underdevelopment; the international distribution of income; the causes of economic growth; public policy for the promotion of economic growth; theories and development.

Economics 497. Private Enterprise and Public Policy. **Three hours.**

Prerequisite: Economics 231.

A detailed analysis of public policy as it is related to various types of business operations and combinations, including conspiracy, monopoly, mergers, unfair practices, and discrimination. Economic and legal appraisal of policy alternatives.

GRADUATE DIVISION COURSES

Economics 500. Problems in Consumer Economics. **Three hours.**

An advanced treatment of some of the problems in the area of consumer economics. The place of consumption in economic theory; the institutional background of consumer habits; sources of information on consumption; government regulation of consumer standards; intelligent consumer choices; savings as part of the family spending; investments, estate planning and wills; consumer credit; consumer in taxes.

Economics 501. Contemporary Economic Problems. **Three hours.**

Prerequisite: Economics 231.

This course involves a consideration of such goals of society as economic growth, economic stability, economic security, economic freedom, etc. The problem-approach method will be utilized. Students will be expected to demonstrate their understanding of and ability to use the tools of economic analysis in connection with the problems studied.

Economics 510. History of Economic Thought. **Three hours.**

Prerequisite: Economics 231.

In this course a survey of economic thought and doctrine from the ancient period to the end of the classical period will be made.

Economics 511. Economic Thought Since the Austrian School. **Three hours.**

Prerequisite: Economics 510.

This is a continuation of Economics 510. The chief economical doctrine since the Austrian school will be studied.

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Education 198

Library Science 211

Psychology 213

EDUCATION

(Recommended Curriculum for a Major in Elementary Education with right of Provisional Elementary Teaching Certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Geography elective	3	**Humanities elective	3
Military Science 101 (Men) or		Military Science 102 (Men) or	
Elective (Women)	2	Elective (Women)	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
*Required Science	3	*Required Science	3
Social Science 100	3	Social Science 101	3
	16		16

Second Year

Fnglish 211	3	Education 202	3
History 246	3	English 212	3
Mathematics 201	3	History 247	3
Military Science 201 (Men) or		Mathematics 202	3
Elective (Women)	2	Military Science 202 (Men) or	
Psychology 211	3	Elective (Women)	2
*Required Science	3	*Required Science	3
	17		17

Third Year

Art 360	3	Art 361	3
Education 315	2	Education 316	2
English 318	3	Home Economics 310	2
Health 201	3	Library Science 301	3
Music 271	3	Music 360	3
Sociology 231	3	Physical Education 322	2
		Elective	2
	17		17

Fourth Year

Education 354	3	Education 367	6
Education 360	3	Education 463	10
Science 351	3		
***Social Science elective	3		
Elective	6		
	18		16

* Required science includes any four of the following five courses: Geology 108, Science 109, 110, 111, 112.

** Selected from either Art 200 or Foreign Language. Upper division and transfer students should elect one of the following: Art 390, 391; History 498, 499; Music 371, 372.

*** Selected from Upper Division Courses in Anthropology, Economics, Geography, History, Political Science, and Sociology.

EDUCATION

(Major in Elementary Education Arranged According to Subjects)

ART	6
360 Public School Art	3
361 Art Education in Elementary School	3
EDUCATION	29
*202 Professional Orientation	3
315-316 Human Development and Psychology	4
354 Reading in the Elementary School	3
360 Teaching of Elementary School Mathematics	3
367 Fundamentals of Elementary Education	6
**463 Supervised Student Teaching	10
ENGLISH	15
101-102 Spoken and Written Communication	6
211 Survey of Literature I	3
212 Survey of Literature II	3
318 Literature of the United States	3
HEALTH AND PHYSICAL EDUCATION	9
115 Fundamental Physical Education Activities	1
116 Fundamental Physical Education Activities	1
201 Personal and Community Health	3
322 Physical Education in the Elementary School	2
310 Home Economics, Nutrition for the Elementary Teacher	2
HUMANITIES ELECTIVE	3
***Art 200, Art Appreciation: Orientation, or Foreign Language	
LIBRARY SCIENCE	3
301 Children's Literature and Related Materials	3
MATHEMATICS	6
201 Understanding Arithmetic	3
202 Understanding Elementary Mathematics	3
MILITARY SCIENCE (MEN) ELECTIVE (WOMEN)	8
101 Introduction to Military Science	2
102 Basic Military Training	2
201 Second Year Basic Military Training	2
202 Second Year Basic Military Training	2
	8
or	
Elective (Women)	8
MUSIC	6
360 Public School Music	3
Elective: Music 271, 371, or 372	3

* Transfer students will enroll in Education 300 in lieu of Education 202.

** In-service teachers having three years of teaching experience may enroll in Education 463b for eight semester hours of credit.

*** Upper division and transfer students should elect one of the following: Art 390, 391; History 498, 499; Music 371, 372; or a foreign language.

PSYCHOLOGY	3
211 General Psychology	3
SCIENCE	15
Any four of the following five courses:	12
Geology 108, Science 109, 110, 111, 112	
351 Science for Elementary Teachers	3
*SOCIAL SCIENCES	21
**100-101 Contemporary Social Problems	6
246-247 History of Western Civilization	6
Geography elective	3
231 Sociology, Human Society	3
Elective: Anthropology, Economics, Geography, History, Political Science, Sociology	3
ORIENTATION	2
100-101 College Orientation	2
***ELECTIVES	8-16
Total	134

* Six hours in history courses are required.

** Open only to freshmen. Non-freshmen students may elect from other social science courses.

*** With prior approval of advisor.

EDUCATION

LOWER DIVISION COURSES

Education 202. Professional Orientation. **Three hours.**

An introduction to the field of education and teaching. The aim of the course will be not only to acquaint the student with the role of public education, but also to help him analyze his own personal fitness for teaching, to become acquainted with the nature of the teaching profession, and to help him choose intelligently a teaching field. At this time the student initiates the application to the Teacher Education Program. Certain tests and other prescribed instruments are completed which become a part of his professional folder.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Education 300. Issues and Trends in American Education. **Three hours.**

This course is designed for, required of, and limited to junior level transfer students who have not taken Education 202. Focus is on such current issues and trends in American education as: quality versus mediocrity; religious instruction in public schools; school prayer; teaching of controversial issues; special education for exceptional children; homogeneous grouping; and, federal aid to education. A variety of experiences will be provided to assess the student's potential for a career in teaching. At this time the transfer student initiates the application to the Teacher Education Program. Certain tests and other prescribed instruments are completed which become a part of his professional folder.

Education 301. (Formerly Education 30.) The Junior High School. **Two hours.**

Origin, development, and present status of the junior high school movement; the place of the junior high school in the public school system; the aims, purposes, and objectives of the junior high school; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment of the junior high school.

Education 302. (Formerly Education 32.) Pupil Accounting. **Three hours.**

Relation of attendance to pupil progress; social and economic factors which affect attendance; school census; personnel records. In developing these topics a study will be made of personnel work in typical schools of Kentucky.

Education 303. Social Case Study. **Three hours.**

This course is designed for the training of attendance officers and covers a study of various approaches to understanding of the pupil with an educational setting as the basis of study. Some attention is given to social case work as it relates to the social and economic problems of the community.

Education 315. (Formerly Education 215.) Human Development and Psychology. **Two hours.**

Prerequisites: 60 semester hours including Psychology 211, Education 202, Social Science, and Biological or Physical Science. Admission to teacher education.

This course is designed to utilize a synthesis of the concepts and principles of human growth and development in a scientific process of understanding the causes of human behavior. An attempt is made to understand the relative and complex influences on child behavior which result from the physiological, affectional, and cultural areas of forces. It includes two hours per week devoted to selected readings, films, lectures, and discussions; and one hour per week for each student to observe the behavior of a selected child and to write an anecdotal record of the observation.

Group interpretation of the anecdotal record provides experiences for inferring the causes of individual behavior from the large body of general principles which govern human behavior.

Education 316. (Formerly Education 216.) Human Development and Psychology. **Two hours.**

Prerequisite: Education 315. Admission to teacher education.

This course is a continuation of Education 315. The experience of observing and keeping an anecdotal record of a child's behavior is continued with increased complexity of structure and interpretation. Seminars are directed more toward the psychological forces which interact with each other and with the physical and cultural forces to shape human behavior; self-developmental processes and self-adjustment processes. Attempts are made to relate classroom procedures to such topics as the nature of learning, forces affecting learning, motivation, perception, intelligence, child centered approach to learning, and evaluation of pupil progress.

Education 354. (Formerly Education 164, 22, and 254.) Reading in the Elementary School. **Three hours.**

Prerequisite: Education 315. Admission to teacher education.

Objectives of reading in the elementary school; reading in the primary and intermediate grades; the place of oral reading in the grades; individual differences in reading; word difficulties; phonics; measuring reading instruction; motivation; materials of instruction.

Education 356. Social Studies in the Elementary School. **Three hours.**

A course designed for prospective and in-service elementary school teachers in which attention will be given to both curriculum and methods in the social studies. A study will be made of the issues in social studies instruction. The development of materials, reading instruction in social studies, and the sources of content will be studied.

Education 358. Language Arts in the Elementary School. **Three hours.**

The role of the language arts in the elementary school curriculum. Topics focused upon will be speaking, listening, reading, spelling, and writing as they pertain to the elementary school child and curriculum.

Education 360. Teaching of Elementary School Mathematics. **Three hours.**

Prerequisites: Education 315, Mathematics 201, and Mathematics 202. Admission to teacher education.

Developing an understanding of the elementary school mathematics program with emphasis on the foundation program of number experiences; methods and materials for teaching the fundamental processes of arithmetic, common and decimal fractions, weights and measures; and the evaluation of mathematical learning.

Education 364. Fundamentals of Secondary Education. **Four or six hours.**
Prerequisite: One semester of residence at Eastern; admission to teacher education; completion of Education 202, 315, and 316; over-all academic standing of 2.25, as well as in major and/or minor fields; approval of department head. Taken same semester as Education 463.

Graduated approach to responsible room teaching through experiences in study and discussion, organizing materials, directed observation, laboratory work, and gradual participation; development of the American secondary school; experiences in the study of pupil behavior; selection and organization of curriculum experiences; variation in techniques of teaching in different types of learning; learning objectives, interests, methods, and materials in special fields; experiences involving management and co-curricular duties; experiences in human relationship.

Education 367. Fundamentals of Elementary Education. **Six hours.**
Prerequisite: One semester of residence at Eastern; admission to teacher education; completion of Education 202, 315, 316, 354, and 360; over-all academic standing of 2.25, as well as in major field; approval of department head. Taken same semester as Education 463.

This course is designed for elementary education majors as part of their professional semester. It offers a functional and graduated approach to responsible teaching in the elementary school through study and discussion, directed observation and laboratory experiences involving the preparation of teaching materials. It develops further understandings of the various elementary curriculum areas, educational theories and principles, and methods and techniques; an awareness of professional ethics and responsibilities; and a consciousness of the implications of child growth and development for the teacher.

Education 368. (Formerly Mathematics 31.) Elementary Statistical Methods. **Two hours.**
Methods of collecting data; methods of tabulation of data; uses and purposes of statistical methods; central tendencies; deviation; correlations; graphic methods.

Education 369. Audio-Visual Methods. **Three hours.**
A survey of various types of audio-visual aids; with instruction in the utilization of pictures, maps, graphs, slides, records, recorders, projectors, and other audio-visual materials. (Also Library Science 369.)

Education 370. (Formerly Education 37.) Resource-Use Education. **Three hours.**
This course is designed to help teachers understand the dynamic role of education in developing resources—natural, human, and cultural—and to aid them in making better use of resources in teaching. Topics: Meaning and objectives of resource-use education; analysis of state, regional, and national resources; selecting and organizing resource materials for effective teaching purposes; use of field trips, visual aids, readings, and other activities; sources of materials from state, regional, and national agencies; types of aids available to teachers; state, regional, and national planning for the conservation and wise use of resources; some principles of resource-use education.

Education 384. (Formerly Education 47 and 383.) Organization and Administration of the School System. **Two hours.**
Prerequisite: Junior standing.
This course deals with the total school system and is designed to give the student a clear picture of the public school system as a whole. Among the topics treated are the study of and participation in experiences leading to an understanding of the principles and practices in the organization and administration of the total school system; study of the functions of education in a democracy; the scope and functions of school organization and control; problems of prospective teachers; important responsibilities and activities related to instruction; membership in the teaching profession, and other problems connected with the public school system in general.

Education 401. Problems in Education. **One to three hours.**

Prerequisite: Approval of advisor and the head of the Department of Education.

This course is designed for students who wish to do independent work on a contemporary problem in education, or who wish to enroll in a special workshop or seminar focusing on a particular topic.

Education 415. The Role of the Teacher in Guidance. **Three hours.**

This course is designed to aid the prospective teacher in examining the concepts, principles, and foundations of guidance as these apply to the role of the teacher. Particular emphasis will be given to those guidance functions which can be performed by teachers. The interrelationships of counselor, teacher, and administrator as these are related to guidance will be stressed.

Education 416. Child Development Laboratory I. **Three hours.**

This course involves the direct study of children. Each participant selects a child for study, writes a description of the child, and gathers significant data about the child from all available sources of information. In regular periodic meetings with other participants, the materials are presented for criticism and analysis. Emphasis is placed upon skill in observation, objectivity in recording, and realism in analysis of causes of behavior. The course, for in-service teachers, runs for the entire school year, and each participant must complete his analysis in a structured summary.

Education 417. Child Development Laboratory II. **Three hours.**

This course is a continuation of Education 416, but with added emphasis on procedures for analysis of the dynamics of behavior. A structured framework of six broad areas of factors and processes in child development is employed. The records must be summarized in terms of developmental tasks within these areas.

Education 418. Child Development Laboratory III. **Three hours.**

This course is a continuation of Education 417.

Education 419. Teaching in the Kindergarten. **Three hours.**

This course is designed primarily for students who are especially interested in the theory and practice of teaching in the kindergarten.

Topics: The kindergarten movement; nature, development, and education of the child of kindergarten age; organization, equipment, curriculum, and procedures used with children of this age; kindergarten education, its leaders; and its literature. Some opportunity will be provided for observing and participating in the kindergarten.

Education 420. Creative Experiences in Early Childhood Education. **One to three hours.**

Designed for prospective and in-service nursery school, kindergarten, and day-care center teachers to explore ways of fostering creativity in children under six. Focus will be on the nature of creativity, development of skills used in creative expression (e.g., listening and observing), and activities which promote creativeness in the pre-school child. Laboratory experiences with a variety of art media, recent films, and appropriate field trips will be included. Special attention will be given to the organization of the daily program for creative learning.

Education 421. (Formerly Education 421a and 421b.) Educational Measurement. **Three hours.**

Survey of the development of mental and educational tests; the nature and classification of standard tests; the construction of tests; the importance of accuracy in measurement, reliability, validity; extent to which standardized measures should replace traditional types of measurement; methods of improving the ordinary examination; the criteria for the selection of standardized tests; statistical analysis of the test data, use of the results for comparison, classification, promotion, guidance, prognosis, diagnosis; and measuring the efficiency of the teacher and of schools.

Education 441. The Elementary School Curriculum. **Three hours.**

This course will involve examining the objectives of elementary education in light of the needs of our changing society. A study will be made of the function of the elementary school, the content of its curriculum, and evaluation and revision of the program.

Education 463. Supervised Student Teaching. **Eight or ten hours.**

Prerequisite: For elementary education majors the prerequisite is the same as for Education 367; the prerequisite for secondary education majors is the same as for Education 364. This course is taken the same semester as either Education 364 or 367.

Observation, participation, and responsible room teaching; child study with special case study problems and remedial work; development of skills and techniques desirable for good school procedure; the location, collection, and organization of materials for instruction; study of community occupations, resources, social and economic problems; experience in meeting parents, visiting homes, participation in social programs of school and community; experience in directing various kinds of activities including routine school duties, field trips, and extra-curricular program; acquaintance with the school organization, school policies, system of records and the like; learning how to maintain desirable pupil-teacher relationship.

Education 463b. Laboratory Experiences in Elementary Education. **Eight hours.**

Prerequisite: See prerequisite for Education 367, Education 367.

This course is designed to meet the needs of experienced teachers who have taught on a full-time basis for a period of three years on a legal certificate and who are qualified under the regulations of the State Board of Education to use this course as a substitute for any part or all of Student Teaching.

Topics: A study of the aims and functions of elementary education; analysis of good teaching practices; experiences in locating, collecting and organizing the materials in education; experiences in studying various kinds of activities including routine school duties, field trips, and extra-curricular programs; acquaintance with school organization, school policies, and records and reports; analysis of learning experiences involved in maintaining desirable pupil-teacher relationships; pupil-teacher planning and execution of plans; experiences in library readings, oral and written discussions, and limited observation and participation in an elementary classroom.

Education 463k. Student Teaching in the Kindergarten. **Three hours.**

Prerequisite: Education 367, 419, 420, and 463.

Observation, participation, and supervised teaching in the kindergarten. Includes experiences such as child study and observation, lesson planning, classroom management, record keeping, development and use of instructional materials, and directed teaching. Planning and implementing appropriate learning experiences for the five-year old child will be stressed.

Education 463s. Laboratory Experiences in Secondary Education. **Eight hours.**

Prerequisite: See prerequisite for Education 364, Education 364.

This course is designed to meet the needs of experienced teachers who have taught on a full-time basis for a period of three years on a legal certificate and who are qualified under the regulations of the State Board of Education to use this course as a substitute for any part or all of Student Teaching.

Topics: A study of the aims and functions of secondary education; analysis of good teaching practices; acquaintance with the latest studies and research dealing with: quality education; techniques of guidance and testing; grading, promoting and reporting; attendance, dropouts, and motivation; education for the gifted; meeting individual differences and ability grouping; integrating school subjects; self evaluation for teachers; school organization, daily program, and curriculum revision; place of extra-curricular activities in our schools; special problems of social studies in secondary schools; merit pay for teachers; professional ethics; and a growing educational philosophy; the American high school today and of the future; Kentucky's recently revised Foundation Program Law; review Retirement System; and new program of studies and accreditation policies.

Education 490. Moral-Spiritual Values in Education. **Three hours.**

The purpose of this course is to provide opportunities for teachers to focus their attention on certain moral and spiritual values within the framework of the existing curriculums.

GRADUATE DIVISION COURSES

Education 500. Introduction to Educational Administration. **Three hours.**

This course is designed as the first course to be taken by those who plan to complete all or a part of the leadership curricula. It deals with theories of administration and the practice of these theories at the system level and community level; it deals with the functions of those who work with learners, with teachers, with plant, with curriculum, and with other aspects of a functioning educational program at the local, state, or national level. The studies of administrative functions of school personnel will be examined in this course. Rsearch in the administrational field by CPEA will make up a large part of the materials for the course.

Education 501. (Formerly Education 50a.) School Administration I. **Two hours.**

Federal relations to education; the state as a fundamental school unit; general school law and court decisions relating to public education; powers and duties of state school officials; work of the state department of education; local units of school control; power and duties of local school officials; administration of adult education and other types of special education; the administration of teacher personnel; public-school relations; closer school-community relationships; principles of good school-community relationships; education and the community; non-government controls of education; school insurance administration; the non-public or protest school; community administrative structure; principles of operation.

Education 502. (Formerly Education 50b.) School Administration II. **Two hours.**

Administration of pupil accounting; the school census; attendance; records and reports; organization and administration of the supervisory program; curriculum administration; selection of school sites; building plans and designs; school building management; operation and maintenance of the school plant; selection and use of equipment and supplies; organization of school libraries; auxiliary agencies; administration of health education; school consolidation and transportation; office administration; classification and progress of pupils; administration of pupil guidance; appraisal; interpretation; advanced education; major steps in building a school.

Education 503. (Formerly Education 50c.) School Administration III. **Two hours.**

The background of school finance; the school finance situation; the control of public education; tests of wholesomeness of fiscal policy; economic effects of school finance; cost and character of education; a conceptual basis for local financial administration; budgeting school funds; auditing school accounts; school revenue-sources and management; financial accounting; cost analysis; financial statements and reports; salaries of school employees; school supply management; procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency; management of school property; financing capital outlay; the American state and central support of public education; the foundation program; designing programs for marshaling effective support for an adequate foundation program-equalization; designing programs for marshaling effective support for vigorous local autonomy; progress and compromise; designing fiscal programs to establish the desired balance of controls between central and local agencies; measures of educational need for use in state programs; measures of relative ability for use in evaluating fiscal policy and in designing state programs; state educational endowment; the state and taxation; federal financing of education.

Education 504a. Problems in Educational Administration. **One hour.**

This course is designed for advanced graduate students who desire to work on special problems according to their individual needs. Students enrolling for this course should have the approval of the Head of the Department of Education and the Dean of the College.

Education 504b. Problems in Educational Administration. **One hour.**

A continuation of Education 504a.

Education 504c. Problems in Educational Administration. **One hour.**

A continuation of Education 504b.

Education 505. Kentucky School Law. **Two hours.**

This course will be primarily concerned with developing knowledge and understanding of: The principles of school law, constitutional provisions relating to public schools in Kentucky, school districts, school buildings and other school property, school officers, the State Department of Education, school support, conduct of schools, compulsory attendance, school faculties and other employees, retirement, tenure, vocational education, rehabilitation education, higher education, and court interpretation of the laws.

Education 506. Problems in Public School Finance. **Two hours.**

Prerequisite: Education 503.

This course is designed primarily for in-service students. A few selected problems will be studied rather carefully.

Education 510. (Formerly Education 51a and 51c.) Curriculum Problems and the Improvement of Instruction in Elementary Schools. **Three hours.**

Meaning and function of education; underlying principles developed for curriculum use and curriculum revision; interpretation of the learning experi ences (school subjects in light of the meaning and function of education); study of concrete materials and classroom procedure with a representative range of practical problems in various subject areas; types of organization used in modern instruction; how children learn; various educational agencies in the community; how the school may be made a real community center; laboratory study and field trips.

Education 511. General Supervision. **Three hours.**

Objectives and problems of school supervision; techniques and functions of supervision; current practices in supervision; problems of organizing instruction to meet increasing responsibilities of public schools; analyzing teachers' difficulties; planning supervisory programs; selecting and organizing instructional materials; locating and using community resources and other aids available to public school teachers; techniques for developing desirable professional relations; problems of in-service education for teachers. Each member of the group will plan a supervisory program for a local school system in Kentucky as a special project in the course.

Education 512. Curriculum Development. **Two hours.**

This course is designed for graduate students who desire to make a critical study of the principles and techniques of curriculum making in public schools. Recent curriculum developments are evaluated and effective curriculum programs are considered. Some attention is given to the recent professional literature on curriculum development and trends.

Education 513. Principles of Guidance. **Two hours.**

This course includes selection, evaluation, and usage of group guidance methods; emphasis will be placed upon appropriate methods and materials for specific situations in group guidance programs. This course will also deal with educational and occupational information. It will include a survey of pertinent educational and occupational material with emphasis being placed upon intensive and extensive use of these as they apply to secondary school students.

Education 514. Organization and Administration of Guidance Services. **Two hours.**

Prerequisite: Education 513.

This course will focus on the selection of materials and organization of programs for school guidance. Types of organizational patterns, methods of initiating a program, and evaluative techniques will be considered. The relationship of guidance personnel to other staff members and to the community will be examined. The course will assist the counselor to develop or initiate a more suitable and workable guidance and counseling program in his school.

Education 515. (Formerly Education 52.) Human Development and the Psychology of Learning. **Three hours.**

Developmental factors and individual differences; motives, goals, and purposes; arranging the learning situation; problem solving and creative expressions; acquiring skill and information; transfer; the curriculum; social setting for learning; evaluation of development and learning.

Education 516. Measurement and Guidance. **Three hours.**

An intensive study of measurement and other techniques for guidance and counseling in schools, including counseling and guidance principles and techniques. Some attention is given to statistical methods. Recent developments in guidance and counseling are evaluated and effective programs are given special consideration. Fee, $2.00.

Education 517. Individual Intelligence Testing. **Two hours.**

Prerequisite: Education 516.

Designed to build proficiency in administering and understanding individual intelligence tests. Includes study of purposes of individual intelligence tests, their make-up, and directions for administering. Each student is required to administer test to several children or adolescents and to interpret test findings.

Education 518. Practicum in Counseling. **Two hours.**

This course is designed to build proficiency in counseling and interviewing. Includes brief review of modern counseling and interviewing techniques and their purpose in guidance; major emphasis is given to compilation and study of case histories of records, and actual interviewing and counseling with pupils, teachers, parents, supervisors, and administrators.

Education 519. Clinical Study of Exceptional Children. **Two hours.**

Methods are studied for diagnosing and teaching brilliant, retarded, physically handicapped, and emotionally maladjusted children.

Education 520. Group Processes in Guidance. **Two hours.**

Prerequisite: Education 513, or experience as a guidance counselor.

Theories, issues, and trends in the use of group methods in guidance will be the main topics in this course. It is designed to assist counselors to better understand and apply sound principles of group processes as part of the ongoing guidance program. Included will be emphasis on the choice of appropriate experience for effective guidance and counseling. Some experience with actual groups will be included.

Education 521. (Formerly Education 53.) Audio-visual Education. **Three hours.**

Meaning and value of audio-visual aids; fundamental principles developed for the selection, organization, and utilization of audio-visual materials; detailed study of various sources of visual aids; formation of standards for evaluation; laboratory study and field trips. Special attention is given to problems of organizing these materials in a school.

Education 522. Occupational and Educational Information. **Two hours.**

Prerequisite: Education 513 and 514, or experience as a guidance counselor.

A survey of the development and use of occupational and educational information in counseling and guidance. The course will assist the student to examine the significance of various types of prepared materials which may be appropriate for school guidance. An analysis of methods for evaluating these materials and of integrating them into the counseling process will be presented.

Education 525. Guidance in the Elementary School. **Three hours.**

A survey of the current trends, issues, and concepts of elementary guidance and counseling. Current programs of elementary guidance will be analyzed and implications for integration in the students' situation will be examined. Opportunity for observation of elementary students will be provided so that the developmental pattern of these youth may be integrated more accurately into the didactic material. The relationship of the elementary counselor to other staff members will be considered.

Education 531. (Formerly Education 55a.) History of Education. **Two hours.**

Brief survey of the history of education in ancient and medieval times with special reference to the contribution of Greece, Rome, and Christianity to modern education; educational influences of the Renaissance and the Protestant Reformation; the role of the doctrine of formal discipline; educational influence of Comenius, Rousseau, Pestalozzi, Froebel, and Herbart.

Education 532. (Formerly Education 55b.) History of Education in the United States. **Two hours.**

Rise and development of public education in the United States with special emphasis upon the work of Horace Mann; sociological, psychological, and scientific movements in education; desirable educational reorganizations; the influence of John Dewey; brief study of the development of public education in Kentucky.

Education 536. (Formerly Education 55c.) Philosophy of Education. **Two hours.**

Meaning and scope of philosophy and education; contrasting philosophies and conceptions of education; the nature and meaning of education in relations to the individual and the social order; education and democracy; social progress and social control; the nature of thinking; educational aims and values; subject matter and methodology in relation to the educative process; character education; evaluation and interpretation of present-day issues and problems in education.

Education 537. (Formerly Education 55d.) Comparative Education. **Two hours.**

Examination, comparison, and discussion of the background of conditions and theories which have resulted in the present practices in education in the world today.

Education 538. Modern Trends in Educational Philosophy. **Two hours.**

Prerequisite: Education 536 or its equivalent.

A study of alternative philosophies and their implications for current educational theory and practice.

Education 542. (Formerly Education 56.) Applied Statistical Methods. **Two hours.**

Prerequisite: Education 368.

Measurements in psychology and education; frequency distributions; measures of central tendency; measures of variability; applications of the normal distribution curve; reliability and significance of statistics; testing hypothesis; prediction and errors of prediction: correlation methods; reliability and validity of tests.

Education 550. (Formerly Education 57 and 57r.) Educational Sociology. **Three hours.**

Relation of sociology to education; sociological problems and their educational implications; social groups and institutions in relation to education; social forces and their significance in society; the sociological determination of educational objectives; social elements and values in the curriculum; democracy in school administration and supervision; essential elements of a socialized educational program.

Education 562. The Role of the Principal. **Three hours.**

Nature of demands made on school principals; organization of duties for effective management; planning the year's work; responsibilities for schedule-making; guidance functions of the principal; projecting a guidance organization; office duties of the principal; duties pertaining to records and reports; organizing the program of student activities; administering the program of student activities; duties pertaining to the need of youth; adjusting school to pupil needs; evaluating the progress of pupils; the administration of teacher personnel; duties pertaining to supervision; educational diagnosis and remedial treatment; the improvement of curriculum materials; the use of tests in instruction; the school library; business duties of principals; administering the school plant; the principal in the community; and the future of the school principalship.

Education 563. (Formerly Education 58b and 58c.) Improvement of Instruction in the Secondary School. **Three hours.**

Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

Education 565. Investigations in Reading. **Two hours.**

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of reading in the elementary school.

Education 566. Investigations in Elementary School Mathematics. **Two hours.**
This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of mathematics in the elementary school.

Education 567. Investigations in the Teaching of Social Studies. **Two hours.**
This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of social studies.

Education 569. (Formerly Education 59d.) Research in Education. **Two hours.**
Functions of educational research; types of research and the principal techniques of each type; bibliography; discovering educational problems for study; organization and interpretation of data; preparing and evaluating research reports; class discussions and reading reports.
Required of all graduate students who do not prepare a thesis.

Education 570. Seminar. **One hour.**

Education 571. Seminar. **One hour.**

Education 572. Seminar. **One hour.**
The Seminar is designed for students who are preparing a thesis in partial fulfillment of the requirements for the degree of Master of Arts in Education. If the thesis requirement is waived. Education 569, Research in Education, is required.

Education 580. Organization and Supervision of Student Teaching. **Three hours.**
Prerequisite: Teaching experience.
A course designed for teachers preparing to become supervising teachers in the elementary and secondary schools. Emphasis will be placed upon supervision of student teachers, supervision of instruction, and improvement of instruction. The course gives emphasis to the responsibility of the supervising teacher to administrators, to student teachers, and to the boys and girls. Intensive study will be made in the areas of teaching, classroom management, planning instruction, conferences, ethics, and evaluation of the student teaching program.

Education 581. Leadership for Helping Teachers in Studying Children. **Two hours.**
Prerequisite: For those persons who plan to serve as leaders in an in-service education program designed to increase teachers' understanding of pupils. The course is open to people who have the master's degree.
By using mimeographed records, the participants gain skill in relating factors and processes revealed in the records to the behavior of a child. Attention is given to methods of observation, writing an anecdotal record, selection of significant data, home visitation, and interpretation. Special emphasis is placed on plans for leading teachers in a systematic study designed to understand the behavior of pupils.

Education 582. Inter-Institutional Seminar in Child Development. **Three hours.**
For graduate students who are interested in current research in child development. The daily all-day program generally held for two weeks in the summer includes lectures, films, large and small group discussions, and committee assignments. Emphasis is placed upon the study of current research findings in child development. Participants are encouraged to do research and writing which can be published in the Seminar's annual publication. Outstanding guest speakers, a well stocked library, recreational facilities, and staff members from several leading institutions are provided. Registration by permission from the Head of the Department of Education.

Education 583. Analysis of Recent Research in Human Development. **Three hours.**

Prerequisite: Education 515.

Designed for graduate students who are interested in current efforts to learn more about the behavior of children, and to find ways of utilizing this knowledge in the educative process. Experiences consist of individual and group research into current and recent exploration and study of factors and processes which affect the development and learning of children. Evaluation of this research is through critical group discussion in seminar-like atmosphere.

Education 585. Seminar for Supervising Teachers. **Three hours.**

Prerequisite: Education 580, and experience as a supervising teacher.

This seminar is a follow-up of Education 580. It is designed for in-service supervising teachers to explore in depth problems and procedures relating to their work in supervision of student teaching. Critical study will be made on individual and group problems, with emphasis on improving supervisory skills.

Eastern Kentucky State College participates in a cooperative program with Merrill-Palmer Institute of Human Development and Family Life, Detroit, Michigan, for selected second semester junior students in Elementary Education.

This program, which includes students from all parts of the world, focuses on the multi-disciplinary approach to the study of human development and behavior. Theoretical study is given added depth through laboratory experiences and practicum teaching.

Students selected for this program reside at Merrill-Palmer Institute for one semester. A tuition fee and room and board charge are paid to the Institute. Credits earned at the Institute may be transferred to a degree program at Eastern with prior approval of the student's advisor and the Registrar.

Elementary Education students who are interested in this cooperative program should contact the Head of the Department of Education.

LIBRARY SCIENCE

The program in Library Science is open to students of upper division standing who have demonstrated a good scholastic standing and evidence of fitness for school library work. A knowledge of the use of the typewriter is desirable. Those students desiring to continue their library education in a graduate library school are encouraged to acquire the ability to read at least one modern foreign language.

Requirements for a Minor in Library Science:

Library Science 301, 311, 321, 331, 401, and *441 ..... 18 semester hours

Certification Requirements for the Elementary School Librarianship

An elementary teaching certificate based on a baccalaureate or a master's degree will be valid for the elementary school librarianship, provided the following courses in library science have been completed:

School library organization and administration (Management) ..... 3 semester hours

Books, references, and related materials for children and young people, which include the content of the course—Literature for Children ..... 9 semester hours

Cataloging and classification ..... 3 semester hours

School library practice ..... 3 semester hours

(The requirement in school library practice may be met by one-third of the student teaching having been devoted to school library practice or by three semester hours in school library practice being taken in addition to the full amount required in student teaching.)

Certification Requirements for the High School Librarianship

A high school certificate based upon a baccalaureate or a master's degree will be valid for the high school librarianship, provided the following courses in library science have been completed:

School library organization and administration (Management) ..... 3 semester hours

Books, references, and related materials for children and young people, which include the content of the course—Literature for Children ..... 9 semester hours

Cataloging and classification ..... 3 semester hours

School library practice ..... 3 semester hours

* If the student chooses to count Library Science 441 as part of the Student Teaching credit, Library Science 463 must be taken in addition to the courses listed.

(The requirement in school library practice may be met by one-third of the student teaching having been devoted to school library practice or by three semester hours in school library practice being taken in addition to the full amount required in student teaching.)

Note: The certificate for the elementary school librarianship may be validated for the high school or twelve-grade librarianship upon the completion of the course Fundamentals of Secondary Education. The certificate for the high school librarianship may be validated for the elementary school or for twelve-grade librarianship upon completion of the courses Fundamentals of Elementary Education and Teaching of Reading.

UPPER DIVISION COURSES

Library Science 301. (Formerly English 360.) Children's Literature and Related Materials. **Three hours.**

Prerequisites: English 101, 102, 211, and 212.

A study of poetry, fiction, folk and fairy stories, biography and other informational books. Criteria for judging each group and methods for using each group both for curriculum needs and recreational reading. Units on story telling, free and inexpensive materials, and aids in the selection of books and non-book materials are included.

Library Science 311. School Library Management. **Three hours.**

This course covers the evaluation and organization of materials at hand; the ordering of new books and preparing them for circulation; classification; simple cataloging; setting up a simple loan system; use of student aid; knowledge of standard equipment and supplies; use, care, and repair of books; and the keeping of statistical records.

Library Science 321. Reference. **Three hours.**

The course is designed to extend the student's knowledge of general and specialized reference works. It is intended to provide information for satisfactory use of library resources. Materials used will be formal reference books, non-fiction books which may have reference value, periodicals and pamphlets. Special emphasis will be placed on the selection of reference books and on the preparation of bibliographies.

Library Science 331. Classification and Cataloging. **Three hours.**

Prerequisite: Library Science 311.

Principles of simplified classification and cataloging will be studied with author, title, and subject cards being made. Attention will be centered on actual classification and cataloging of school library books. Some instruction in the cataloging of audio-visual aids will be given. Skill in typing is necessary.

Library Science 369. Audio-Visual Methods. **Three hours.**

A survey of various types of audio-visual aids; with instruction in the utilization of pictures, maps, graphs, slides, records, recorders, projectors, and other audio-visual materials. (Also Education 369.)

Library Science 401. Young People's Literature. **Three hours.**

Study and selection of books for the adolescent. Stresses reading interests, levels and needs of young people as well as books and some material supplemental to the school curriculum.

Library Science 441. School Library Practice. **Three hours.**

Prerequisite: Library Science 301, 311, and 321 and others except as may be taken at the same time as this course.

Library practice in the school library designed to give the trainee practical experience in many phases of school library service, including desk work, teaching children the use of reference materials, and assisting in the preparation of books for circulation. Reading guidance, story telling and the organization of unit materials are stressed.

Library Science 463. Instructional Materials for the School Library. **Three hours.**

Evaluation, selection, preparation, use and handling of non-book materials for the school library. Some preparation of free and inexpensive materials will be discussed.

PSYCHOLOGY

A student may minor in Psychology by taking the following courses:

Required Courses: (9 Hours)

Psychology 211—General Psychology ..... 3 hours
Psychology 399—Psychometrics ..... 3 hours
*Psychology 499—Seminar in Psychology..... 3 hours

Total: 9 hours

Elective Courses: (Total of 9 hours of electives with approval of advisor)

Psychology 212—Applied Psychology ..... 3 hours
Psychology 308—Abnormal Psychology ..... 3 hours
Psychology 310—Psychology of Early Childhood ..... 3 hours
Psychology 312—Child Psychology ..... 3 hours
Psychology 314—Adolescent Psychology ..... 3 hours
Psychology 320—Psychology of Learning..... 3 hours
**Psychology 400—Experimental Psychology ..... 3 hours
Psychology 402—Industrial Psychology ..... 3 hours
Psychology 410—Psychology of the Exceptional Child ..... 3 hours

Total: 9 hours

Total hours for minor: 18 hours

* Prerequisites: Completion of fifteen hours in Psychology, including Psychology 211 and Psychology 399. Approval of minor advisor.

** Twelve hours in Psychology, including Psychology 211 and 399, and approval of instructor.

LOWER DIVISION COURSES

Psychology 211. General Psychology. **Three hours.**

Preview of psychology; factors in development; motivation; emotions; learning; the management of learning; thinking; personality and individual differences; intelligence; vocational and employment psychology; getting along with people; psychology and social problems.

Psychology 212. Applied Psychology. **Three hours.**

Prerequisite: Psychology 211.

A study of psychological factors in occupational choices and of applications in fields such as advertising, industry, law, medicine, and personnel work.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Psychology 308. Abnormal Psychology. **Three hours.**

Prerequisite: Psychology 211.

A study of the nature, causes, and prevalence of disorders of sensory and motor activities, memory, emotions, intelligence, and personality.

Psychology 310. Psychology of Early Childhood. **Three hours.**

Prerequisite: Psychology 211.

Focus upon the physical, mental, social and personality development of the pre-school child. Emphasis on the role of parents and other adult figures. Interests, attitudes, and self-concept of the child under six are given special attention.

Psychology 312. Child Psychology. **Three hours.**

Prerequisite: Psychology 211.

Focus on the physical, mental, social and personality development of the child from age six to puberty, with emphasis on adjustment to school, peers, and community. Role of parents, teachers, and other authority figures; effect of emotional disturbance on school achievement; sex education; development of self-concept; social class influences and origins of social attitudes.

Psychology 314. Adolescent Psychology. **Three hours.**

Prerequisite: Psychology 211.

Focus on the nature and sources of emotional, social, intellectual and personality problems of adolescents.

Psychology 320. Psychology of Learning. **Three hours.**

Focus on the psychological principles in relation to growing children; theories and processes of learning, maturation, individual differences and their measurement; personality problems and statistical procedures. Includes a critical examination of dominant concepts and principles involved in learning theories with emphasis on the role of habit formation and acquisition of motives.

Psychology 399. Psychometrics. **Three hours.**

Prerequisites: Junior standing and completion of Psychology 211.

This course focuses on the application of psychological principles of measurement to human behavior. It is designed to instill in the undergraduate student a degree of sophistication in the application and appreciation of the psychometric method, and to enhance his effectiveness in communicating the results obtained.

Psychology 400. Experimental Psychology. **Three hours.**

Prerequisite: Fifteen semester hours in Psychology, including Psychology 211 and 320.

Use of the scientific method in the experimental study of general and theoretical psychology with emphasis on sensation, perception, and learning.

Psychology 402. Industrial Psychology. **Three hours.**

Prerequisite: Psychology 211.

A survey of the methods and principles of psychology as they apply to business and industry. Emphasis will be on employee selection, classification, training and evaluation, optimum work environment, scheduling and procedures, and the relation between man and machines.

Psychology 410. Psychology of the Exceptional Child. **Three hours.**

Prerequisite: Psychology 211.

This course focuses on the psychological problems of children having superior or inferior intellectual ability. The course includes examination of research studies, procedures in identification of exceptional children and in assessing their potentials and limitations. Attention is also given in helping to plan for the social adjustment of such children.

Psychology 499. Seminar in Psychology. **Three hours.**

Prerequisites: Completion of fifteen hours in psychology, including Psychology 211 and Psychology 399. Approval of minor advisor.

This seminar provides an intensive treatment of psychology through the opportunity to synthesize the various approaches to the study of psychology. Focus will include the history of psychology, principles and theories of learning, experimental psychology, motivation, emotions, perception, development, personality, counseling, and other areas. Concepts, methodology, and current developments in the aforementioned areas will be stressed.

GRADUATE DIVISION COURSES

Psychology 500. Social Psychology. **Three hours.**

Prerequisite: Psychology 211.

A study of social phenomena in terms of the original and acquired reaction systems of the individual. Special consideration given to group behavior, role status, attitudes, prejudice, crowds, mob behavior, propaganda, and nationalism.

Psychology 501. (Formerly called Personality Development and Adjustment.) Psychology of Personality. **Three hours.**

A study of personality beginning with theories of personality which include Freud, Rogers, Mowrer, Dollard and Miller, and Gestalt Psychology. Contrast and comparison of these theories will be made. A synthesis of these theories will be made by each individual, after which the inter-relationship between personality and environment will be studied. Emphasis will be placed on aggression and frustration, and how these affect the development of the personality.

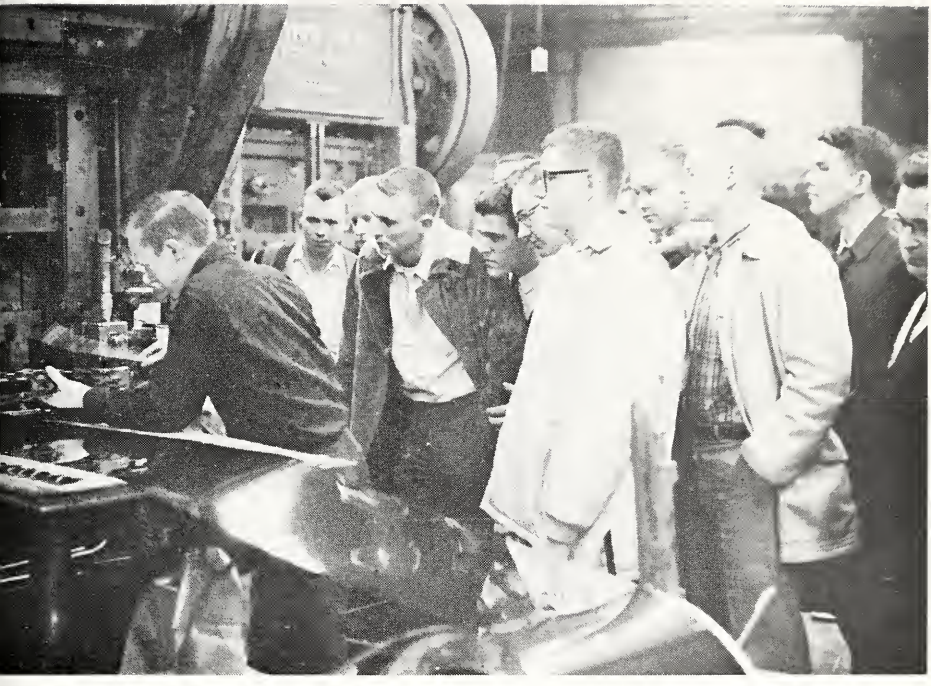
Psychology 504. Psychology of Family Relations. **Three hours.**

A study of the psychological factors of family living, and the dynamics of their interaction in all phases of family living. Emphasis is placed on role concepts, effects of various relationships within the family, the role of finance, and the problem of aging. (Also Home Economics 504.)

Psychology 505. Psychology of Marital Problems. **Three hours.**

Prerequisite: Approval of instructor.

A seminar type course designed for the professional person who works with marriage and its problems. Emphasis will be on the understanding of the dynnamic interaction between the partners of the marriage. Children in marriage and their relationship to it will be studied. Outside readings, case studies, and group discussions will be used.



School of Technology

Agriculture 218

Home Economics 223

Industrial Arts 228

Nursing 238

AGRICULTURE

The University of Kentucky and the Eastern Kentucky State College are cooperating in the preparation of Vocational Agriculture teachers and in providing other training in Agriculture.

In accordance with this plan, Eastern will offer two years of the curriculum leading to the degree in Agriculture at the University of Kentucky. Hours earned beyond the sophomore level may not be transferable. Upper division courses are offered for the convenience of students who plan to graduate at Eastern with a field or minor in Agriculture.

All courses given in the Eastern Kentucky State College will constitute a part of the regular program of instruction of the College of Agriculture and Home Economics of the University of Kentucky and will carry both course and residence credit toward the degree of Bachelor of Science in Agriculture awarded by the College of Agriculture and Home Economics.

AGRICULTURE

(Recommended curriculum for a major in Agriculture)

First Year

First Semester	Hours	Second Semester	Hours
Agriculture 125	3	Agriculture 126	3
Agriculture 130	3	Agriculture 131	3
Biology 131	3	English 102	3
English 101	3	Mathematics 107	3
Military Science 101	2	Military Science 102	2
Physical Education 115	1	Physical Education 116	1
Orientation 100	1	Orientation 101	1
	16		16

Second Year

Agriculture 211	3	Agriculture 223	3
Agriculture 243	3	Agriculture 241	3
Chemistry 111	4	Chemistry 112	5
Economics 230	3	Military Science 202	2
Military Science 201	2	Speech 131	3
Elective	2		
	17		16

Recommended Curriculum for a Minor in Agriculture

A student with a major and minor in other departments may take a minor in Agriculture by completing eighteen hours approved by the head of the department.

Eastern offers two-year programs in Agriculture for those who desire specific training to develop certain skills and competencies. Job opportunities for those completing these courses include farm managers, inseminators for artificial breeding associations, sales and service men for feed, fertilizer and farm machinery companies.

It is possible for a student who has started a two-year program to change to a four-year degree program. The amount of credit which he may apply toward a new objective will depend on the program started and upon the one to which he wishes to transfer.

Animal Husbandry

Students following this curriculum will specialize either in dairy production or livestock production.

First Year

First Semester	Hours	Second Semester	Hours
Agriculture 201	1	Agriculture 130	3
Agriculture 221	4	Agriculture 201	1
*Agriculture 223	3	Agriculture 215	4
English 101	3	English 102	3
Military Science 101	2	Military Science 102	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
	18		18

Second Year

Agriculture 152	3	Agriculture 115	3
Agriculture 201	1	Agriculture 201	1
Agriculture 225	3	Agriculture 252	3
Agriculture 240	3	Agriculture 315	3
**Agriculture 324	3	Agriculture 345	3
Business 125	3	Geography 202	3
Military Science 201	2	Military Science 202	2
	18		18

* Students specializing in livestock production should substitute Agriculture 125.

** Students specializing in livestock production should substitute either Agriculture 327, Agriculture 328, or Agriculture 329.

A two-year program in Agriculture-Business:

First Year

First Semester	Hours	Second Semester	Hours
Agriculture 115	3	Agriculture 125	3
Agriculture 130	3	Agriculture 131	3
Business 125	3	Business 126	3
English 101	3	English 102	3
Military Science 101	2	Military Science 102	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
	16		16

Second Year

Agriculture 152	3	Agriculture 221	4
Agriculture 215	4	Agriculture 252	3
*Agriculture 223	3	*Agriculture 327	3
Agriculture 241	3	Agriculture 345	3
Business 227	3	Business 322	3
Military Science 201	2	Military Science 202	2
	18		18

* One of the following courses may be substituted for either of these courses: Agriculture 126, 225, 228, 315, 324, 327, 328, or 329.

AGRICULTURE

LOWER DIVISION COURSES

Agriculture 115. Agricultural Mathematics. **Three hours.**

A thorough drill in the fundamentals which are used in practical arithmetic including fractions, ratio and proportion, percentage, formulas of area and volume, graphs and logarithms. Lecture, three hours.

Agriculture 121. Breeds of Livestock. **Three hours.**

A survey of the different kinds of farm livestock which includes origin, development, outstanding characteristics, and the strong and weak points of each breed. This course will more fully acquaint the student with the breeds of livestock that are currently being used in commercial production. Two hours lecture and two hours laboratory.

Agriculture 125. (Formerly Agriculture 25.) Farm Livestock Production. **Three hours.**

Importance and use of livestock products; present types; market classes and grades of beef cattle, sheep, swine, horses and mules; the origin, development, and characteristics of the more important breeds. Lecture three hours, laboratory one hour.

Agriculture 126. (Formerly Agriculture 11.) **Farm Poultry Production. Three hours.**

Principles of poultry husbandry; breeds and poultry improvement; selection and culling; incubation and brooding; feeding, housing and disease control; marketing poultry products. Lecture three hours, laboratory one hour.

Agriculture 129. Livestock Management. **Two hours.**

Intensive training in livestock management practices with emphasis on the preparation of animals for show or sale. Laboratory four hours.

Agriculture 130. Introduction to Agronomy. **Three hours.**

This course touches very briefly upon the many broad areas of agronomy so that the student may better understand the relationship that exists between them. This will give a foundation of general information upon which the specific courses in crop production and soils may be built. Lecture three hours.

Agriculture 131. (Formerly Agriculture 12.) General Horticulture. **Three hours.**

A study of the basic principles of fruit and vegetable production; hot bed and cold frame management; garden and orchard planning. Lecture three hours.

Agriculture 152. (Formerly Agriculture 352.) Farm Motors. **Three hours.**

Operation and repair of motors, tractors and tractor equipment. Fundamental principles governing the selection and care of this equipment on the farm. Lecture one hour, laboratory four hours.

Agiculture 200. Apiculture. **Three hours.**

The anatomy of the honey bee; the colony, location and equipment of the apiary; production of comb and extracting honey; diseases and enemies of bees; observation and manipulation of beekeeping equipment. Lecture two hours, laboratory two hours.

Agriculture 201. Directed Work Experience. **One hour.**

A minimum of five hours per week of work on the college farm or an approved farm. Two months of full-time employment by an approved farm may be substituted for the work requirement. Students will meet one hour each week for discussion and review of current publications. May be repeated four times.

Agriculture 211. (Formerly Agriculture 20.) Elementary Farm Crops. **Three hours.**

A study of field crop production; pasture management; weed control; crop rotation; inoculation; tillage; and seed selection. Lecture three hours.

Agriculture 215 (Formerly Agriculture 30 and 315.) Soils. **Four hours.**

Prerequisite: Two semesters of general chemistry.

Soil origin, classification, and properties; soil conservation; soil micro-organisms; organic matter; soil water; soil minerals; lime; commercial fertilizers; soil erosion; and soil management. Lecture three hours, laboratory two hours.

Agriculture 221. (Formerly Agriculture 31 and 321.) Principles of Animal Nutrition. **Four hours.**

Prerequisite: Chemistry 111.

Digestion, absorption, assimilation and utilization of nutrients by domestic animals; principal feeds, rations and nutritive ratios. Lecture three hours, laboratory two hours.

Agriculture 223. (Formerly Agriculture 21.) Farm Dairying. **Three hours.**

Milk as a food; market milk; milk sanitation; dairy inspection; bacteriology of milk; scoring milk and cream; laboratory tests for various dairy products, production costs, pasteurization; refrigeration. Lecture two hours, laboratory two hours.

Agriculture 225. Livestock Judging. **Three hours.**

An evaluation of purebred and commercial dairy cattle, beef cattle, sheep and swine. Practice in writing and giving reasons orally. Lecture one hour, laboratory four hours.

Agriculture 228. Animal Hygiene. **Three hours.**

A study of the measures designed to promote health and prevent diseases of livestock. Special consideration given to feed and water, housing and ventilation, yards and pastures, sanitation and environment. Lecture three hours.

Agriculture 240. (Formerly Agriculture 440.) Soil Conservation. **Three hours.**

Prerequisite: Agriculture 215.

Conservation of soils and their fertility; erosion and control; soil conservation methods for individual farms. Lecture three hours.

Agriculture 241. (Formerly Agriculture 41 and 441.) Agricultural Economics. **Three hours.**

The problems of economics as applied to agriculture; a study of the agricultural industry from historic, geographic and economic approaches. Lecture three hours.

Agriculture 243. (Formerly Sociology 14.) Rural Sociology. **Three hours.**

Historical backgrounds; movements, resources, and problems of rural communities; rural-urban relationships; rural people; problems of rural youth; agriculture and its problems of adjustment; community organizations and institutions; adult education; public health; rural recreation; social welfare; community organization and local government; relationship of the school to other institutions and agencies of the rural community; location and use of educational materials and resources of the community; state and national policies for the improvement of rural society. Lecture three hours.

Agriculture 250. (Formerly Agriculture 23.) Farm Shop. **Three hours.**

Care and repair of farm tools; tool grinding; soldering; painting; concrete work; shop exercises in the construction of farm equipment. Lecture one hour, laboratory four hours.

Agriculture 251. (Formerly Agriculture 24.) Farm Structural Engineering. **Three hours.**

The construction, care and repair of farm buildings and equipment. Includes study and practice in farm surveying; drainage; terracing; and exercises involving the use of the transit and level. Lecture one hour, laboratory four hours.

Agriculture 252. (Formerly Agriculture 34.) Mechanics of the Farmstead. **Three hours.**

Selection and care of farm machinery; electric motors; power transmission; care and repair of electric equipment in the home and on the farm. Lecture one hour, laboratory four hours.

Agriculture 261. Elementary Landscape. **Three hours.**

A consideration of the elementary principles of landscape as applied to the planting of urban home grounds and farmsteads.

UPPER DIVISION COURSES

(Open to Junior and Senior Students)

Agriculture 300. General Agriculture. **Three hours.**

This course consists of a broad general study of soils, cereal and forage crops, livestock, poultry and vegetables. It is designed for students not majoring in Agriculture who would like to make a general, introductory study of agriculture.

Agriculture 304. (Formerly Health 31.) Dairy Bacteriology. **Five hours.**

Prerequisite: Biology 303.

Control of microorganisms in dairy and food products; bacterial analysis of dairy and food products; sanitation on the farm. Lecture two hours, laboratory four hours.

Agriculture 312. Advanced Crops: Forage Crops. **Three hours.**

Prerequisite: Agriculture 211.

A study of the practices and principles of forage crops, especially grasses and legumes suited to Kentucky farms. Lecture three hours.

Agriculture 315. Animal Breeding. **Three hours.**

A study of the physiology of reproduction and the theoretical and practical application of genetic principles in livestock breeding. Lecture two hours, laboratory two hours.

Agriculture 324. (Formerly Agriculture 22 and 224.) Dairy Cattle Management. **Three hours.**

Prerequisite: Agriculture 221.

Dairy cattle breeds; judging; feeding; calf raising; pedigrees; production; testing; dairy barn construction; equipment. Lecture three hours.

Agriculture 327. (Formerly Agriculture 44 and 227.) Beef Production. **Three hours.**

Prerequisites: Agriculture 125 and 221.

History and importance of the beef cattle industry; selection, breeding, feeding and management of beef cattle. Lecture two hours, laboratory two hours.

Agriculture 328. (Formerly Agriculture 26 and 228.) Pork Production. **Three hours.**

Prerequisites: Agriculture 125 and 221.

Types and breeds of swine; selection; breeding; feeding; disease control. Lecture two hours, laboratory two hours.

Agriculture 329. Sheep Production. **Three hours.**

Prerequisites: Agriculture 125 and 221.

History and importance of the sheep industry; selection, breeding, feeding and management of sheep; production and handling of wool. Lecture two hours, laboratory two hours.

Agriculture 345. (Formerly Agriculture 32.) Farm Management. **Three hours.**

Prerequisites: Economics 230 and Agriculture 241.

Factors affecting the organization and management of farms; cost of production; profits; types of farming; soil management; cropping systems; livestock enterprises; farm labor; rental agreements; farm machinery and equipment; farm layout. Lecture three hours.

Agriculture 347. (Formerly Agriculture 33.) Farm Accounting. **Three hours.**

The fundamental principles of accounting applied to farm accounts; financial statements; depreciation; production costs. Lecture three hours.

Agriculture 442. Marketing. **Three hours.**

Prerequisite: Agriculture 241.

A study of the problems involved in marketing farm produce; livestock markets; classes and functions of middlemen; grading and standardization; wholesaling and retailing; transportation and storage; financing; prices; speculation; cooperative markets. Lecture three hours.

HOME ECONOMICS

(Suggested for an Area in the field of Vocational Home Economics with right of teaching certificate. Deviation from this curriculum may be permitted to take care of individual differences.)

First Year

First Semester	Hours
Art 117	3
English 101	3
Home Economics 203 or 204	3
Orientation 100	1
Physical Education 115	1
Science 111	3
Social Science 100	3
	17

Second Semester	Hours
Chemistry 111	4
English 102	3
Home Economics 203 or 204	3
Home Economics 208 or Art 200	3
Orientation 101	1
Physical Education 116	1
Social Science 101	3
	18

Second Year

Art 200 or Home Economics 208	3
Chemistry 112b	5
English 211	3
Home Economics 206 or 215	3
Psychology 211	3
	17

Biology 219	3
Economics 260	3
Education 202	3
English 212	3
Home Economics 206 or 215	3
Home Economics 231 or 307	2 or 3
	17 or 18

Third Year

Education 315	2
Home Economics 231 or 307	2 or 3
Home Economics 301	3
Home Economics 302 or 306	3
Home Economics 304 or 350	3
Home Economics 305 or 322	3
	16 or 17

History 246	3
Home Economics 302 or 306	3
Home Economics 304 or 350	3
Home Economics 305 or 322	3
Home Economics 330	3
Home Economics 366	4
	19

Fourth Year

History 247	3
Home Economics 403*	4
Music 271	3
Sociology 231	3
	13

Education 364	4
Education 463	10
Home Economics 466	3
	17

Electives: Home Economics 303, 401, 404, 407, 456a, 456b, 456c.

*Five semester hours will be required for those holding contracts. Four semester hours will become effective in 1966-67 and will be so stated on contracts written during this and following semesters.

Recommended Curriculum for a Minor in Home Economics

A student with a major and a minor in other departments may take the following courses for a minor in Home Economics: Foods, 6 hours; Clothing, 6 hours; House, 3 hours; Family and Child Development, 3 hours.

Classification of Home Economics Courses

For certification purposes Home Economics courses are classified as follows:

Housing, Home Furnishings, Equipment: 301, 322, 350
Foods and Nutrition: 204, 215, 302, 306, 309, 310, 406
Clothing and Textiles: 203, 206, 305, 308, 455
Health and Home Care of the Sick: 211, 231
Family Relationships and Child Development: 208, 303, 304, 307, 311, 401, 404, 405, 407, 502, 503, 504
Family Economics and Home Management: 330, 403
Home Economics Education: 366, 456a, 456b, 456c, 466, 500

Eastern Kentucky State College participates in a cooperative program with Merrill-Palmer Institute of Human Development and Family Life, Detroit, Michigan, for selected second semester junior students in Home Economics.

This program, which includes students from all parts of the world, focuses on the multi-disciplinary approach to the study of human development and behavior. Theoretical study is given added depth through laboratory experiences and practicum training.

Students selected for this program reside at Merrill-Palmer Institute for one semester. A tuition fee and room and board charge are paid to the Institute. Credits earned at the Institute may be transferred to a degree program at Eastern with prior approval of the student's advisor and the Registrar.

Home Economics students who are interested in this cooperative program should contact the Head of the Department of Home Economics.

HOME ECONOMICS

LOWER DIVISION COURSES

Home Economics 203. (Formerly Home Economics 20.) Garment Making. **Three hours.**

Clothing selection, fabric, planning and construction. A study of factors that influence the selection of a college wardrobe. Fundamental construction techniques, use of commercial patterns, fittings and alterations. Lecture one hour and laboratory work.

Home Economics 204. Introduction to Foods and Nutrition. **Three hours.**

Nutritional properties of foods with emphasis on the conservation of these properties in food preparation.

Home Economics 206. (Formerly Home Economics 23.) Dressmaking. **Three hours.**

Prerequisite: Home Economics 203 or its equivalent.

Selection, construction and consumer education. Advanced problems in the selection, planning, construction techniques and problems effecting the consumer in relation to clothing. Lecture one hour and laboratory work.

Home Economics 208. Personal Relationships in the Home and Community. **Three hours.**

Personality development and personal problems in adjustment are studied. Consideration is given to individual adjusting to home, school, vocation, marriage, and community. Required of all sophomores in home economics. Open to non-majors in home economics.

Home Economics 211. Family Casework. **Three hours.**

This course is designed to give the student an understanding of the psychological factors which affect the degree of acceptance by family members of a long convalescence or chronic illness in the home; of the family's responsibility in such cases and of healthy family attitude as contrasted with unhealthy family attitudes toward illness and infirmities.

Home Economics 215. Food Management. **Three hours.**

Prerequisite: Home Economics 204 or its equivalent.

The planning, preparing and serving of foods with emphasis on management of the nutritional, cultural, economic and aesthetic factors involved in meeting the food needs of individuals and families.

Home Economics 231. (Formerly Health 22 and 231.) Health and Home Care of the Sick. **Two hours.**

The health of the family and simple procedures for the care of patients in the home are stressed.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Home Economics 301. (Formerly Home Economics 30.) Household Equipment. **Three hours.**

Standards for selecting and buying household equipment and small appliances. Providing for adequate electric and gas service in home. Maintenance of household equipment and appliances.

Home Economics 302. Experimental Foods. **Three hours.**

Prerequisite: Home Economics 215; Chemistry 111 and 112b.

An experimental study of food from the physical and chemical viewpoint. Individual oral and written presentations of current research problems.

Home Economics 303. Development of the Infant and Pre-school Child. **Three hours.**

Emphasis will be placed on the study of pre-natal development and the behavior patterns of infancy and the pre-school child. The role of the home in providing the necessary climate for sound social and emotional growth will be studied through current research and contacts with parents. Laboratory experiences will be provided for study of the behavior of the pre-school child in group work and play.

Home Economics 304. (Formerly Home Economics 402.) Child and Adolescent Development. **Three hours.**

Prerequisite: Psychology 211; Education 315 or Home Economics 303.

Care necessary for physical, mental, emotional, and social development of the child through adolescence; observation of children.

Home Economics 305. (Formerly Home Economics 34.) Tailoring and Design. **Three hours.**

Prerequisite: Home Economics 203 and 206; Chemistry 111 and 112b.

A study of design in clothing and tailoring. Construction techniques in tailoring a suit or coat. Lecture one hour and laboratory work. This course planned for teacher education. The students prepare teaching materials for use in clothing classes.

Home Economics 306. Advanced Nutrition. **Three hours.**

Prerequisite: Biology 219, Chemistry 112b, Science 111.

Nutrition as it affects the individual, the family, and the community under varying conditions and circumstances. Current research in selected topics related to maternal and child nutrition and other nutritional problems of national and international scope.

Home Economics 307. The Family in the Home and the Community. **Three hours.**

Problems relative to marriage. Factors which contribute toward developing a well adjusted family; relation of the family in the community.

Home Economics 308. (Formerly Home Economics 37.) Advanced Textiles. **Three hours.**

Prerequisite: Chemistry 111 and 112b.

The advanced study of textile fibers; chemical tests.

Home Economics 309. Principles of Nutrition. **Three hours.**

This course includes non-technical nutritional information. Emphasis is placed on the use of nutritional information for promoting a high degree of physical fitness. Study is made of menus, family food budgets, and recent trends in American dietary habits.

Home Economics 310. Nutrition for the Elementary Teacher. **Two hours.**

The fundamentals of nutrition. The importance of good nutrition to the child. Ways to interest the child in good nutrition. Results of good nutrition.

Home Economics 311. ..Interpersonal Relationships and the World Family. **Three hours.**

Prerequisite: Home Economics 307.

Students will be able to concentrate on and study intensively specific areas of world family life. Interpersonal relationships and the world family will be the focus. Group projects, individual study, panel discussions, and conferences will be used in addition to extensive readings of research and other literature.

Home Economics 322. (Formerly Home Economics 222.) Interior Decoration. **Three hours.**

Prerequisite: Art 117.

Decoration and furnishing for the interior of the house. Laboratory work in refinishing of furniture, slip covers and drapes.

Home Economics 330. Factors Affecting Home Management. **Three hours.**

An appreciation of the factors which influence home and family living; a study of management problems relating to: Time, energy, money, equipment, as well as personal development in relationships and hospitality.

Home Economics 350. (Formerly Home Economics 250.) The House. **Three hours.**

Architecture; house plans; landscaping; materials suitable for building a home, financing a home.

Home Economics 366. (Formerly Education 304.) Vocational Home Economics Education. **Four hours.**

Prerequisite: Education 202 and Psychology 211.

This course is designed to present an introduction to Home Economics Education in current trends and the role of the home economics teacher in the school and community. It includes the home economics teacher in the adult homemaking program and a study of the promotion, organization and administration of adult programs.

Home Economics 401. The Nursery School. **Three hours.**

A study of the philosophy and objectives of the nursery school experience for children with emphasis on day care for children of working mothers. The interaction of parents, children, and teachers will be an important consideration. This course is designed for those interested in directing programs in public day care centers or private nursery schools.

Home Economics 403. Home Management Residence. **Four hours.**

Prerequisite: Home Economics 302, 306, and 330.

Improvement of skills in the management of time, money, and energy; meal planning; food buying; preparation and serving of meals; cleaning; laundrying. Family relationships, etiquette, and hospitality are emphasized. Reservations for appointment to live in the Turley House should be made several weeks prior to the beginning of the semester.

Home Economics 404. (Formerly Home Economics 338.) Current Trends in Child Development. **Three hours.**

Study of current concepts and trends in the study of child development. Includes recent research concerning problems in child growth and development, and methods of presenting child development to high school groups.

Home Economics 405. Seminar in Family Life. **Three hours.**

Prerequisite: Home Economics 307.

Students will be able to concentrate their interests in an intensive study of specific areas of family life. The main focus will be on the family and its interpersonal relationships. Group projects and study, panel discussions, and conferences will be used in this course.

Home Economics 406. Newer Knowledge of Nutrition. **Three hours.**

Prerequisite: Home Economics 306.

Study of latest research in nutrition and diets in relation to diseases.

Home Economics 407. Organization and Administration of the Nursery School. **Three hours.**

A study of the history of nursery education and the organization and administration of housing, equipment, records and parent cooperation. This course is designed for those interested in directing programs in public day care centers or private nursery schools or in college laboratory schools.

Home Economics 455. Advanced Costume and Design. **Three hours.**

Prerequisite: Art 117; Home Economics 203 and 206.

The application of art principles in color and line, in designing and construction of garments.

Home Economics 456a. Special Problems in Home Economics. **One hour.**

The student chooses a problem and works under the supervision of the instructor in the field of the problem.

Home Economics 456b. Special Problems in Home Economics. **One hour.**

A continuation of Home Economics 456a.

Home Economics 456c. Special Problems in Home Economics. **One hours.**

A continuation of Home Economics 456b.

Home Economics 466. (Formerly Education 466.) Advanced Methods in Teaching Home Economics Education. **Three hours.**

Prerequisite: Approval of head of department.

This course provides an overview of student teaching including purpose and evaluation. An opportunity is provided for experiences in curriculum planning, use of instructional materials, preparation of a budget, record keeping, working with the Future Homemakers of America. Principles of housing are applied to recognition of desirable space and equipment for a home economics department.

GRADUATE DIVISION COURSES

Home Economics 500. Workshop in Family Life Education. **Three hours.**

A workshop designed to provide the professional person with additional background in the family life area. Intensive study of the family life area and its problems will be done. A study of instructional materials and instructional techniques will be used. Role playing, film studies, group discussions, library work, individual conferences will be utilized by the teaching staff.

Home Economics 502. Problems in Family Life. **Three hours.**

Students have the opportunity to study the family in the American culture as it has developed from early tradition. Origins of the family concept with its many customs will be investigated. Emphasis will be placed on the interpersonal relationships of the family and family problems.

Home Economics 503. Advanced Seminar in Family Life. **Three hours.**

Each student will be allowed to study a specific area of family life in an intensive manner. This study will be shared in group discussions and panel forums with the class. Emphasis will be on research.

Home Economics 504. Psychology of Family Relations. **Three hours.**

A study of the psychological factors of family living, and the dynamics of their interaction in all phases of family living. Emphasis is placed on role concepts, effects of various relationships within the family, the role of finance, and the problem of aging. (Also Psychology 504.)

INDUSTRIAL ARTS

COMPREHENSIVE AREA CURRICULUM

(Recommended curriculum for a major in the area of Industrial Arts with right of teaching certificate.)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 130	1	Industrial Arts 141	3
Industrial Arts 191	3	Industrial Arts 180	3
Military Science 101	2	Military Science 102	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Science 109	3	Science 110	3
Social Science 100	3	Social Science 101	3
	17		19

Second Year

Education 202	3	English 212	3
English 211	3	Industrial Arts 292	3
Industrial Arts 242	3	Industrial Arts 351	3
Industrial Arts 281	3	Military Science 202	2
Mathematics 107	3	Psychology 211	3
Military Science 201	2	Science 111	3
	17		17

Third Year

Art 200	3	Education 316	2
Education 315	2	History 247	3
History 246	3	Industrial Arts 326	3
Industrial Arts 233	2	Industrial Arts 343	3
Industrial Arts 311	3	Industrial Arts 353	3
Industrial Arts 372	3	Industrial Arts Elective	3
	16		17

Fourth Year

Art 202	3	Education 364	4
Health 201	3	Education 463	10
Industrial Arts 382	3	Industrial Arts 466	3
Industrial Arts 394	3		
Industrial Arts 467	3		
	15		17

Industrial Arts courses are to be selected to complete a total of 54 semester hours.

Recommended Curriculum for a First Major in Industrial Arts:

A student may take the following courses for a first major in Industrial Arts and other departmental courses for a second major or minor: Industrial Arts 130, 141, 180, 191, 233, 242, 281, 292, 351, 394, 466, and elective to total 36 hours.

INDUSTRIAL ARTS

SPECIALIZED AREA CURRICULUM

(Recommended curriculum for a major in the area of Industrial Arts with right of teaching certificate.)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 130	1	Industrial Arts 141	3
Industrial Arts 191	3	Industrial Arts 180	3
Mathematics 107	3	Mathematics 113	3
Military Science 101	2	Military Science 102	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
	17		19

Second Year

Education 202	3	English 212	3
English 211	3	Industrial Arts 292	3
Industrial Arts 242	3	Industrial Arts 351	3
Industrial Arts 281	3	Military Science 202	2
Military Science 201	2	Physics 132	5
Physics 131	5	Psychology 211	3
	19		19

Third Year

Art 200	3	Biology Elective	3
Education 315	2	Education 316	2
History 246	3	History 247	3
Industrial Arts 233	2	Industrial Arts 353	3
Industrial Arts 311	3	*Industrial Arts Elective	5
Industrial Arts 372	3		
	16		16

Fourth Year

Art 202	3	Education 364	4
Health 201	3	Education 463	10
Industrial Arts 467	3	Industrial Arts 466	3
*Industrial Arts Elective	7		
	16		17

* To be elected from one major area.

A minimum of fifteen semester hours is required in one subject matter area in Industrial Arts.

Industrial Arts courses are to be elected to complete a total of 51 semester hours.

INDUSTRIAL ARTS

INDUSTRIAL TECHNOLOGY CURRICULUM

(Recommended curriculum in the area of Industrial Arts without right of teaching certificate for those planning to secure employment in industry.)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 141	3	Industrial Arts 130	1
Industrial Arts 191	3	Industrial Arts 281	3
Mathematics 107	3	Industrial Arts 292	3
Military Science 101	2	Mathematics 113	3
Orientation 100	1	Military Science 102	2
Physical Education 115	1	Orientation 101	1
Social Science 100	3	Physical Education 116	1
		Social Science 101	3
	19		20

Second Year

English 211	3	English 212	3
Industrial Arts 242	3	Industrial Arts 382	3
Industrial Arts 351	3	Mathematics 232	3
Military Science 201	2	Military Science 202	2
Physics 131	5	Physics 132	5
	16		16

Third Year

Chemistry 111	4	Art 200	3
Health 201	3	Business 125	3
Industrial Arts 233	2	Economics 230	3
Industrial Arts 293 or 492	3	Industrial Arts 353	3
Industrial Arts 372	3	Industrial Arts Elective	3
Elective	2	Social Science Elective	3
	17		18

Fourth Year

Art Elective	3	Industrial Arts Elective	7
Biological Science Elective	3	Elective	9
Industrial Arts Elective	7		
Speech 131 or 205	3		
	16		16

Thirty semester hours should be completed in two of the departmental areas: Woods, metals, drawing, electricity-electronics, and graphic arts.

The two-year industrial technology curricula given below are designed for students who wish to prepare for gainful employment in less than four years. Emphasis is on specialized technical preparation. All courses included in these curricula are standard college courses, which may be credited toward a Bachelor of Science degree.

DRAFTING TECHNOLOGY

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 191	3	Industrial Arts 130	1
Industrial Arts 281	3	Industrial Arts 292	3
Military Science 101	2	Industrial Arts 294	3
Orientation 100	1	Military Science 102	2
Physical Education 115	1	Orientation 101	1
Science 109	3	Physical Education 116	1
		Science 110	3
	16		17

Second Year

Economics 230	3	Business 240	3
Industrial Arts 296	3	Industrial Arts 233	2
Industrial Arts 395	3	Industrial Arts 293	3
Mathematics 107	3	Industrial Arts 295	3
Military Science 201	2	Mathematics 113	3
Psychology 211	3	Military Science 202	2
	17		16

ELECTRONICS TECHNOLOGY

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 151	3	Industrial Arts 252	3
Industrial Arts 191	3	Industrial Arts 253	3
Mathematics 107	3	Mathematics 113	3
Military Science 101	2	Military Science 102	2
Orientation 100	1	Orientation 101	1
Physical Education 115	1	Physical Education 116	1
	16		16

Second Year

Economics 230	3	Business 240	3
Industrial Arts 354	3	Industrial Arts 355	5
Military Science 201	2	Industrial Arts 372	3
Physics 131	5	Military Science 202	2
Psychology 211	3	Physics 132	5
	16		18

PRINTING TECHNOLOGY

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	Art 217	3
Industrial Arts 191	3	English 102	3
Industrial Arts 211	3	Industrial Arts 130	1
Military Science 101	2	Industrial Arts 212	3
Orientation 100	1	Military Science 102	2
Physical Education 115	1	Orientation 101	1
Science 109	3	Physical Education 116	1
		Science 110	3
	16		17

Second Year

Economics 230	3	Business 240	3
Industrial Arts 213	3	Industrial Arts 214	3
Industrial Arts 216	5	Industrial Arts 215	3
Military Science 201	2	Industrial Arts 317	5
Psychology 211	3	Military Science 202	2
	16		16

INDUSTRIAL ARTS

LOWER DIVISION COURSES

Industrial Arts 130. Design Orientation. **One hour.**

An introduction to design theory and practice related to developing industrial arts projects. Emphasis on using contemporary materials and technical processes in solving design problems.

Industrial Arts 141. Elementary Woodwork. **Three hours.**

Basic woodworking course including instruction in the use of common hand tools; basic machine operations; problems in elementary wood construction; woodturning; related technical information; finishing and characteristics of common hard and soft woods.

Industrial Arts 151. Electrical Principles I. **Three hours.**

Principles of electrostatics and current flow; production of heat, light, and power; electrical energy measurement.

Industrial Arts 180. General Metalwork I. **Three hours.**

Basic hand and elementary machine operations and related information in sheet metal, bench metal, art metal, arc and oxyacetylene welding; projects and problems in each area of activity.

Industrial Arts 191. (Formerly Industrial Arts 13.) Technical Drawing I. **Three hours.**

A beginning course stressing problem solving; lettering; sketching; orthographic projection; pictorial representation; tracing; and reproduction of drawings.

Industrial Arts 211. Introduction to Graphic Arts. **Three hours.**

Graphic Arts materials and manipulative processes; hand composition; elementary letterpress work; silkscreen principles; linoleum block printing; bookbinding.

Industrial Arts 212. Advanced Graphic Arts. **Three hours.**

Basic automatic letterpress procedures and operations; introduction to offset-lithography processes; beginning offset process—camera and offset press operations; basic photography; introduction to color process printing.

Industrial Arts 213. Advanced Photography and Offset—Lithography. **Three hours.**

Advanced photography and offset-lithography; advanced study of graphic arts materials and processes; current trends in graphic arts.

Industrial Arts 214. Quality Control and In-Plant Organization. **Three hours.**

Experience and study in the quality control of printing materials; introduction to the organization of plant facilities and production printing processes.

Industrial Arts 215. Printing Management. **Three hours.**

Production management; salesmanship; advertising; estimating; purchasing; public relations; labor and management relations.

Industrial Arts 216. Production Printing I. **Five hours.**

Basic printing experiences gained through work in the college print shop or in commercial printing establishments.

Industrial Arts 233. (Formerly Industrial Arts 15.) Industrial Arts Design. **Two hours.**

Prerequisite: Industrial Arts 191.

Study and application of the principles of three-dimensional design related to industrial arts media. Emphasis placed on experimentation and problem-solving in developing design solutions. Design and construction of projects involving both handicraft and mass production processes.

Industrial Arts 241. General Woodworking. **Two hours.**

Basic operations and information units in hand and machine woodwork; common woods; care and maintenance of tools; finishing of woods; jointery and construction problems. Emphasis on woodworking as an avocation.

Industrial Arts 242. (Formerly Industrial Arts 21.) Intermediate Woodwork. **Three hours.**

Prerequisite: Industrial Arts 141.

Advanced hand woodworking operations; instruction in the operation of common woodworking machines; care and sharpening of tools; related technical information; construction and finishing of projects.

Industrial Arts 243. General Woodworking II. **Two hours.**

Additional operations in machine and hand woodwork; jointery; related information; construction problems; finishing techniques and maintenance of equipment. Emphasis on woodworking as an avocation.

Industrial Arts 249. (Formerly Industrial Arts 14.) Wood and Metal Finising. **Two hours.**

Prerequisite: Industrial Arts 141.

Characteristics of woods and metals; preparation of surface for finishing; staining, sealing, and filling; use of varnish, shellac and lacquer; art metal finishing; finishing abrasives and rubbing; refinishing of furniture.

Industrial Arts 252. Industrial Electricity. **Three hours.**

Power generation and distribution; motor control and repair; relay and solenoid application.

Industrial Arts 253. Electronics I. **Three hours.**

Electronic circuit theory and design; introduction to radio, amplifiers, power supplies, and high fidelity.

Industrial Arts 281. General Metalwork II. **Three hours.**

Basic hand tool and elementary machine operations; foundry; forging; heat treating; machine shop projects and problems; related information in each area of activity.

Industrial Arts 283. (Formerly Industrial Arts 27.) Arc and Oxyacetylene Welding. **Three hours.**

Manipulative processes and related information basic to successful arc, oxyacetylene, and tungsten inert gas welding; metallurgy of welding; physical testing of weldments.

Industrial Arts 292. (Formerly Industrial Arts 20.) Technical Drawing II. **Three hours.**

Prerequisite: Industrial Arts 191.

The making of detail and assembly drawings; production illustrations; forms of bolts, nuts, and threads; dimetric projections; Sepia and Van Dyke intermediates; sketches and drawings from actual parts.

Industrial Arts 293. (Formerly Industrial Arts 23.) Technical Drawing III. **Three hours.**

Prerequisite: Industrial Arts 191.

Advanced drafting techniques with special emphasis placed on map drafting and sheet metal layout.

Industrial Arts 294. (Formerly Industrial Arts 28.) House Planning. **Three hours.**

Planning a residence including site selection, floor plans, elevations, details, and specifications; orders of architecture; common styles of homes; interior features; building materials.

Industrial Arts 295. Machine Drafting. **Three hours.**

Development of skills and procedures through the solution of industrial drafting problems. Problem areas include pictorial and multiview drawings of machine assemblies, cams and gears, transmission of motion in mechanisms.

Industrial Arts 296. Architectural Drafting. **Three hours.**

Preparation of sketches and working drawings for residential and commercial buildings; plans for electrification, plumbing, and heating; building codes and FHA standards.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Industrial Arts 301. Industrial Plastics. **Three hours.**

A course designed to introduce students to the methods, techniques, processes and materials used in the plastics industries; technical information and operations in plastics; operation of plastics production equipment; mold design, including injection and compression molding; extrusion and problems in production and quality control.

Industrial Arts 311. Graphic Arts I. **Three hours.**

A course in general graphic arts with emphasis on hand composition, elementary presswork, silkscreen principles, linoleum block printing and bookbinding.

Industrial Arts 312. Graphic Arts II. **Three hours.**

An advanced course in graphic arts with emphasis on automatic machine printing; production techniques; photography; and off-set lithography.

Industrial Arts 317. Production Printing II. **Five hours.**

Advanced printing experiences acquired through work in the college print shop or in commercial printing establishments.

Industrial Arts 322. (Formerly Industrial Arts 16 and 222.) Industrial Arts for Elementary Teachers. **Three hours.**

Appropriate projects and media for elementary teachers; basic hand tools; use of native materials in elementary projects; classroom improvements and objects constructed typical of those used in the project method.

Industrial Arts 323. (Formerly Industrial Arts 32.) Weaving and Upholstery. **Two hours.**

Prerequisite: Industrial Arts 141.

Upholstering plain surfaces and frame structures; upholstering with springs; renovation; caning; split and fiber weaving; materials; tools and tool processes.

Industrial Arts 326. (Formerly Industrial Arts 29.) Crafts I. **Three hours.**

An introduction to various craft media: leather, art metal enameling; castolite; wood carving; the making of archery equipment; utilization of materials applicable for playground use, community centers, and summer camps.

Industrial Arts 328. Crafts II. **Three hours.**

An introduction to lapidary and jewelry work: cabochon cutting; grinding and polishing; faceting; design and construction of costume jewelry using silver, copper, and gold; centrifugal casting using the lost wax process.

Industrial Arts 343. (Formerly Industrial Arts 31a.) Advanced Woodwork I. **Three hours.**

Prerequisite: Industrial Arts 242.

Additional practice in furniture construction involving skill in the use of machines and hand tools; jointery; bending and laminating wood; finishing; wood technology; maintenance of equipment.

Industrial Arts 344. (Formerly Industrial Arts 33.) Wood Turning. **Three hours.**

Prerequisite: Industrial Arts 242.

Common wood turning problems; sharpening tools; operations in spindle, chuck, and faceplate turning; finishing and polishing.

Industrial Arts 345. (Formerly Industrial Arts 31b.) Advanced Woodwork II. **Three hours.**

Prerequisite: Industrial Arts 343.

Continuation of Industrial Arts 343 with increased emphasis on craftsmanship; the development of a high degree of skill in furniture construction and knowledge of related information.

Industrial Arts 346. (Formerly Industrial Arts 39 and 395.) Carpentry. **Six hours.**

Prerequisite: Industrial Arts 242.

Problems in small home construction; selection of site; form construction; framing; installation of siding; roofing, flooring, windows, doors and interior finish; electrical wiring; plumbing and painting; practice in actual construction.

Industrial Arts 351. Fundamentals of Applied Electricity. **Three hours.**

Principles of static and current electricity; measures of electricity; heat, light, and power applied to the planning and construction of electrical installations.

Industrial Arts 352. Electrical Power and Motor Repair. **Three hours.**

Generation and distribution of electricity; power distribution systems; maintenance and repair of electrical motors.

Industrial Arts 353. Introduction to Radio and Electronics. **Three hours.**

Prerequisite: Industrial Arts 351.

Basic principles of radio, electronics and high fidelity; circuit design and servicing techniques.

Industrial Arts 354. Advanced Electronics. **Three hours.**

Principles of superheterodyne receivers; frequency modulation; solid state devices; transmitters; electronic equipment servicing techniques.

Industrial Arts 355. Applied Electronics. **Five hours.**

Laboratory experiences in circuit design, circuit tracing, and the repair and operation of modern electronic equipment; individual problems in building experimental circuits and servicing of defective equipment.

Industrial Arts 363. (Formerly Industrial Arts 303.) Shop Planning and Equipment. **Two hours.**

Types of industrial arts laboratories; criteria to observe in planning; specifications, sources and procedures in purchasing equipment; selecting, purchasing, and dispensing of supplies.

Industrial Arts 372. Power Mechanics I. **Three hours.**

Prerequisite: Industrial Arts 351.*

Understanding common power sources and power transmission units based on a thorough study of the small gasoline engine and mechanical transmission devices.

* May be taken simultaneously.

Industrial Arts 373. Power Mechanics II. **Three hours.**

Automotive cooling systems; lubrication; fuel and ignition; diesel engines; fluid power.

Industrial Arts 382. (Formerly Industrial Arts 34.) Machine Shop Practice I. **Three hours.**

Projects and problems involving basic machine operations on the lathe, milling machine, shaper, cylindrical grinder, contour saw; advanced bench work; blue print reading; precision measurement; related technical information.

Industrial Arts 383. (Formerly Industrial Arts 35.) Art Metalwork. **Three hours.**

Techniques of design; lay-out, raising, planishing, chasing, etching, spinning, silver soldering, engraving, enameling, anodizing and electro-plating.

Industrial Arts 385. (Formerly Industrial Arts 25.) Sheet Metalwork. **Three hours.**

Prerequisite: Industrial Arts 180 and 281.

Care and use of common sheet metal tools and machines; lay-outs; templates; problems involving soldering, seaming, punching, riveting, forming and spot welding.

Industrial Arts 394. (Formerly Industrial Arts 37.) Elementary Architectural Drawing. **Three hours.**

Prerequisite: Industrial Arts 191.

Basic principles of house planning; floor plans, rafter plans, foundation plans, plot plans, elevations, detail sheets, presentation sheets, specifications, material estimates; architectural modeling; comparative study of building materials; common styles of home architecture; a complete set of plans for a small home.

Industrial Arts 395. Descriptive Geometry. **Three hours.**

Application of the theory of orthographic projection to the graphical representation and solution of three-dimensional problems. (Same as Mathematics 395.)

Industrial Arts 401. Special Problems in Industrial Arts. **Three hours.**
A course for exceptional undergraduates involving independent study and research related to problems of a theoretical and/or practical nature.

Industrial Arts 411. Graphic Arts III. **Three hours.**
Advanced photography; off-set lithography; graphic arts materials and processes; printing management; current trends in the graphic arts industry.

Industrial Arts 433. Workshop in Industrial Arts. **Four hours.**
433a Design; 433b Graphic Arts; 433c Plastics; 433d Power Mechanics; 433e Electronics; 433f Wood Technology; 433g Metals; 433h Crafts.

Industrial Arts 444. (Formerly Industrial Arts 41.) Machine Woodworking. **Two hours.**
Prerequisite: Industrial Arts 242.
Special machine operations; repairing and servicing power woodworking machinery.

Industrial Arts 454. Advanced Radio and Electronics I. **Three hours.**
Prerequisite: Industrial Arts 353.
Advanced principles of radio; fundamentals of transistors; frequency modulation; transmitting procedures; closed circuit television operation and servicing techniques.

Industrial Arts 455. Principles of Television. **Three hours.**
Prerequisite: Industrial Arts 454.
Introduction to television; antenna theory and installation; frequency modulation; transmitting procedures; closed circuit television operation; servicing techniques.

Industrial Arts 464. (Formerly Industrial Arts 42.) History and Philosophy of Industrial Education. **Two hours.**
The history of industrial education from its early beginning to the present; the contribution of leaders; movements in the development of industrial arts and vocational education; modern concepts of industrial arts; legislation for vocational education and the state plan.

Industrial Arts 466. (Formerly Industrial Arts 46.) Teaching of Industrial Arts. **Three hours.**
The function and objectives of industrial arts; the industrial arts curriculum; methods of presentation; instructional aids; planning, equipping and organizing the laboratory; instructional materials; demonstration lessons; evaluation of student achievement.

Industrial Arts 467. Problems and Practices of the General Shop. **Three hours.**
The planning and organization of physical laboratory facilities with emphasis on the comprehensive general shop and the general unit shop. Preparation of instructional materials in the form of designs and exemplary projects.

Industrial Arts 487. (Formerly Industrial Arts 44.) Machine Tool Processes II. **Three hours.**
Prerequisite: Industrial Arts 382.
Continuation of Industrial Arts 382 with increased emphasis on machine tool operations; gear cutting; tool and cutter grinding; problems in tool making; related technical information.

Industrial Arts 488. (Formerly Industrial Arts 45.) Machine Tool Processes III. **Three hours.**
Prerequisite: Industrial Arts 487.
Practice and study in advanced machine tool operations and tool making; heat treating of metals; related technical studies and metrology.

Industrial Arts 489. Characteristics and Maintenance of Machine Tools. **Two hours.**

Prerequisite: Industrial Arts 487.

A study of machine design and construction; installing, servicing, powering and rebuilding machine tools.

Industrial Arts 492. Technical Drawing IV. **Three hours.**

Prerequisite: Industrial Arts 292.

Machine drafting dealing with advanced detail drawing; advanced assembly drawing; patent drawing; production illustrations and tool design.

Industrial Arts 496. (Formerly Industrial Arts 47.) Advanced Architectural Drawing. **Three hours.**

Prerequisite: Industrial Arts 394.

Preparation of complete plans for a large home; building techniques and materials used in house construction; structural modeling.

GRADUATE DIVISION COURSES

Industrial Arts 562. Philosophy of the Practical Arts and Vocational Education. **Three hours.**

Background, purpose, and relationship of the practical arts and vocational education; relationship of both to total programs of education; current philosophies of the practical arts and vocational education.

Industrial Arts 564. Special Problems in Industrial Arts. **One to six hours.**

Problems of particular value to the teacher in the field, both of a practical and of a research nature, will be pursued by the student and developed through conferences and activities directed by the staff.

Industrial Arts 565. Curriculum Practices and Trends in Industrial Arts. **Three hours.**

Current concepts and trends in industrial arts; principles underlying curriculum construction and development; long range planning for improvement of programs.

Industrial Arts 566. Seminar in Industrial Arts. **Three hours.**

A course designed for the graduate student in industrial arts. Current problems and issues in the total field of industrial education will be studied with an emphasis placed on identifying their philosophical and/or psychological dimensions. Research techniques appropriate for industrial education with an emphasis on experimental design and statistical procedures of analysis. Each student will be expected to plan and complete a minor research paper, and to present his findings to the seminar.

Industrial Arts 567. Thesis Research in Industrial Arts. **Six hours.**

Students preparing theses are expected to register for three hours of thesis research in each of two semesters.

Industrial Arts 568. Advanced Design. **Three hours.**

An advanced course in design emphasizing problem-solving and experimentation with industrial arts media.

NURSING

A two-year Associate Degree program in Nursing will begin in September, 1965. Students who successfully complete this program are eligible to take the State Examination for Registered Nurses.

A list of the courses in this program will be available in August, 1965. Students interested should write to the Dean of the School of Technology.

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1965-66

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B.A., College of Wooster; M.Ed., University of Florida; Ed.D., University of Florida. At Eastern since 1963.

JACK L. ADAMS, B.S., M.A. — **Assistant Professor Health & Physical Education Assistant Basketball Coach Tennis Coach**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1962.

KERNEY M. ADAMS, A.B., A.M. — **Professor of History**

Diploma, Eastern Kentucky State Normal School; A.B., University of Kentucky; A.M., Cornell University; additional graduate work, Harvard University. At Eastern since 1928.

MARY AMELIA AKRIGHT, B.Music, M.Arts — **Instructor of Music**

B. Music, M. Arts, University of Missouri; additional work, Detroit Conservatory, University of Michigan. At Eastern since 1962.

AIMEE H. ALEXANDER, A.B., M.A. — **Assistant Professor of English**

A.B., Transylvania College; M.A., University of Kentucky; additional graduate work, Columbia University, George Peabody College for Teachers. At Eastern since 1961.

KEITH W. ALGIER, B.A., M.A., Ph.D. — **Assistant Professor of History**

B.A., M.A., Ph.D., University of New Mexico. At Eastern since 1965.

PATSY R. ALLISON, B.S., M.S. — **Instructor, Health & Physical Education Assistant Dean of Women**

B.S., Eastern Kentucky State College; M.S., Syracuse University. At Eastern since 1962.

CHARLES F. AMBROSE, A.B., M.A., Ed.D. — **Professor of Education Dean of Admissions and Registrar**

A.B., Transylvania College; Student, University of Louisville, Indiana University; M.A., Ed.D., University of Kentucky. At Eastern since 1961.

T. L. ARTERBERRY, A.B., M.A. — **Assistant Professor of Education**

A.B., M.A., University of Kentucky. At Eastern since 1959.

JAMES E. BAECHTOLD, B.S., M.S. — **Associate Professor of Physical Education Head Basketball Coach**

B.S., Eastern Kentucky State College; M.S., Indiana University. At Eastern since 1958.

LANDIS D. BAKER, B.Mus., M.F.A. — **Associate Professor of Music**

B.Mus., Heidelberg College; M.F.A., Ohio University; additional graduate work, University of Illinois. At Eastern since 1954.

VAHE BALADOUNI, B.A., M.S., Ph.D. — **Assistant Professor of Business**

B.A., Baldwin-Wallace College, Berea, Ohio; M.S., Ph.D., University of Illinois, Urbana, Illinois. At Eastern since 1964.

B. W. BALL, B.A., M.A. — **Assistant Professor of English**

B.A., University of Virginia; M.A., Duke University; additional graduate work, University of Southern California, University of Kentucky. At Eastern since 1965.

DIXON A. BARR, B.S. in Ed., M.A., Ed.D. — **Dean, School of Education**
Professor of Education

B.S. in Ed., Ball State University; University of Heidelberg, Germany; M.A., Ed.D., Teachers College, Columbia University. At Eastern since 1961.

MARGARET CATHERINE BARRA, B.S., M.A., Ph.D. — **Professor of Home Economics**

BS., Southern Illinois University; M.A., George Peabody College; Ph.D., Texas Woman's University. At Eastern since 1965.

DONALD L. BATCH, B.S., M.S., Ph.D. — **Assistant Professor of Biology**

B.S., Illinois College; M.S., Ph.D., University of Illinois; additional graduate work at Duke University. At Eastern since 1965.

WILLIAM M. BAYER, B.A., M.A. — **Instructor of Art**

B.A., Arizona State University; M.A., University of Kentucky; additional graduate study, Arizona State University. At Eastern since 1964.

WILLIAM H. BERGE, A.B., M.A. — **Assistant Professor of History**

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J. G. BLACK, B.S., M.S., Ph.D. — **Professor of Physics**

B.S., M.S., University of Kentucky; Ph.D., University of Michigan. At Eastern since 1947.

F. RICHARD BOLLER, B.A., M.A. — **Assistant Professor of Industrial Arts**

B.A., State College of Iowa; M.A., Ball State Teachers College. At Eastern since 1965.

JON F. BOTSFORD, B.S., M.S. — **Assistant Professor of Industrial Arts**

B.S., M.S., Stout State College, Menominee, Wisconsin. At Eastern since 1964.

AUGUST D. BRACKETT, B.A., M.A. — **Assistant Professor of Mathematics**

B.A., University of Louisville; M.A., University of Kentucky. At Eastern since 1962.

EVELYN A. BRADLEY, A.B., M.A. — **Assistant Professor of Psychology**
Dean of Women

A.B., Lindenwood College; M.A., Washington University; additional graduate work, University of Kentucky. At Eastern since 1962.

PHILIP W. BRASHEAR, B.A., M.A. — **Instructor of Mathematics**

B.A., University of Kentucky; M.A., Northwestern University. At Eastern since 1965.

AGNES BRATLEE, B.S., M.Ed. — **Assistant Professor of Art**

Certificate, Minot State College; B.S., University of North Dakota; M.Ed., University of Minnesota; additional graduate work, University of Minnesota; University of Colorado. At Eastern since 1964.

FRED W. BRIZENDINE, A.B., M.A. — **Instructor of Social Science**

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A.A., Truett-McConnell College; B.S. in Ed., M.Ed., University of Georgia; additional graduate work in English, University of Georgia and George Peabody College for Teachers. At Eastern since 1960.

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B.Music, M.Music, University of Michigan; Ph.D., University of Texas. At Eastern since 1965.

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ELLIS BROUGHTON, B.S., M.A. — **Instructor of Business**

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ROBERT L. BYRNE, B.S. in Ed., M.Ed., Ed.D. — **Associate Professor of Education, Director, Reading Clinic**

B.S. in Ed., Ohio University; M.Ed., Kent State University; Ed.D., George Peabody College for Teachers. At Eastern since 1965.

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JANE CAMPBELL, B.Mus., A.B., A.M. — **Associate Professor of Music**

B.Mus., Taylor University; A.B., Ball State Teachers College; A.M., Teachers College, Columbia University; additional graduate study, Columbia University; Student, Ecole Normale de Musique, Paris; International Summer School, Oxford University, England; Mozarteum, Salzburg, Austria; Private student, Nadia Boulanger, Willem Durieux, Ferdinand Schaefer, Lieff Rosanoff, Isolde Ahlgrimm. At Eastern since 1926.

GALAOR CARBONELL, B.S., M.A. — **Assistant Professor of Art**

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B.S., Eastern Kentucky State College; graduate student, University of Kentucky; M.A., University of Cincinnati. At Eastern since 1948.

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COETTA L. COMBS, B.S., M.A. — **Instructor of Business**

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B.S., M.A., Eastern Kentucky State College; M.A. in Ed., University of Kentucky; Dir.R., Dir.P.E., Re.D., Indiana University. At Eastern since 1946.

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NANCY DAVIS, B.M., M.M. — **Instructor of Music**

B.M., M.M., University of Oklahoma; additional graduate work, University of Southern California. At Eastern since 1962.

SYLVIA CAROL DAVIS, B.A., M.A. — **Instructor of German**

B.A., University of Kentucky; graduate work, University of Heidelberg, Heidelberg, Germany; M.A., University of Cincinnati; additional graduate work, University of Cincinnati. At Eastern since 1965.

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Supervising Teacher, Laboratory School

A.B., M.A., University of Kentucky. Additional graduate work, Eastern Kentucky State College, University of Kentucky. At Eastern since 1962.

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B.A., Wabash College; M.S., Ph.D., Purdue University. At Eastern since 1964.

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B.S., M.A., University of Kentucky. At Eastern since 1965.

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B.A., M.A., University of Oklahoma; additional graduate work, University of Tulsa, University of San Carlos (Guatemala), University of Arizona, University of Texas. At Eastern since 1964.

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M.A., University of Jagiellon, Cracow, Poland; Ph.D., University of Paris, Sorbonne, Paris, France. At Eastern since 1965.

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Supervising Teacher, Laboratory School

Student, Kentucky Wesleyan; A.B., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1962.

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B.S., Pikeville College; M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky and Eastern Kentucky State College. At Eastern since 1963.

***DAISY B. FRENCH, B.S., M.A.** — **Assistant Professor of Business**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1956.

ETHEL R. GARBER, B.S., M.A.Ed., A.M.L.S., M.Ed., M.A. Eng. — **Assistant Professor of English**

B.S. in Liberal Arts, Madison College; M.A.Ed., A.M.L.S., M.Ed., George Peabody College; M.A. English, New York University. At Eastern since 1964.

PEGGY B. GARRETT, B.S., M.A. — **Instructor of Music, Supervising Teacher Laboratory School**

B.S., M.A., Eastern Kentucky State College; additional graduate work at Cincinnati Music Conservatory and Eastern. At Eastern since 1964.

DWIGHT DEAN GATWOOD, B.S., M.A. — **Associate Professor of Art**

B.S., M.A., George Peabody College for Teachers; additional graduate work, Ohio State University, New York University. At Eastern since 1947.

RICHARD LEE GENTRY, B.S., M.A. — **Assistant Professor of Health and Physical Education**

B.S., M.A., Eastern Kentucky State College; student, Berea College, University of Kentucky. At Eastern since 1964.

* On Leave 1965-66.

TED M. GEORGE, B.A., M.A., Ph.D. — **Professor of Physics**

B.A., M.A., Ph.D., Vanderbilt University. At Eastern since 1964.

WILLIAM H. GERLACH, B.A., LL.B., M.A. — **Assistant Professor of Political Science**

B.A., Dickinson College; LL.B., Dickinson School of Law; M.A., University of Kentucky. At Eastern since 1964.

CHARLES H. GIBSON, JR., B.S., M.A. — **Assistant Professor of Industrial Arts Supervising Teacher, Laboratory School**

Student, Berea College, Bucknell University, University of Pennsylvania, University of Louisville; B.S., M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1962.

NEWELL T. GILL, B.A., M.A. — **Assistant Professor of Education and Psychology**

B.A., M.A., University of Florida; additional graduate work at the University of Florida. At Eastern since 1965.

R. DALE GIVENS, B.A., M.A. — **Assistant Professor of Anthropology and Sociology**

Student, Edinburg Junior College; B.A., Baylor University; M.A., University of Texas; additional graduate work, State University of Iowa, San Diego State College, University of Arizona, University of California in Los Angeles, University of Kentucky. At Eastern since 1961.

R. PARKER GOWING, B.A., M.B.A. — **Instructor of Business**

B.A., Princeton University; graduate work at Indiana University; M.B.A., Xavier University. At Eastern since 1964.

JAMES A. GRAY, B.S., M.S. — **Assistant Professor of Industrial Arts**

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KENNETH D. GRIFFITH, B.S., C.P.A. — **Assistant Professor of Accounting**

B.S., Eastern Kentucky State College. At Eastern since 1965.

ROBERT N. GRISE, A.B., M.A., Ed.D. — **Associate Professor of Education**

A.B., M.A., Eastern Kentucky State College; additional graduate work, Indiana University; Ed.D., University of Kentucky. At Eastern since 1963.

BARNEY R. GROVES, B.S., M.S. — **Assistant Professor of Health and Physical Education, Intramural Director**

B.S., Southeastern State Colege, Durant, Oklahoma; M.S., Oklahoma University; additional graduate work, Florida State University. At Eastern since 1964.

PATSY P. GROVES, B.S., M.S. — **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.S., Southeastern State College, Oklahoma; additional graduate work, Florida State University and Eastern Kentucky State College. At Eastern since 1964.

WILLIAM H. GULLEY, A.B., M.A., Ph.D. — **Professor of Sociology**

A.B., M.A., Ph.D., University of North Carolina. At Eastern since 1965.

NORVALINE C. HALE, B.S., M.A. — **Associate Professor of Business**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, Indiana University. At Eastern since 1957.

FRANK L. HAMILTON, B.S., M.A. — **Instructor of Education**
Counselor, Laboratory School

B.S., University of Virginia; M.A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College. At Eastern since 1963.

***DONALD C. HANEY, B.S., M.S.** — **Assistant Professor of Geology**

B.S., M.S., University of Kentucky; additional graduate work, Eastern Kentucky State College, Cumberland College, University of Tennessee. At Eastern since 1962.

TOM HARPER, B.A., M.A. — **Instructor, Health and Physical Education**
Assistant Football Coach

B.A., M.A., University of Kentucky. At Eastern since 1965.

PHILLIP H. HARRIS, B.A., M.A. — **Instructor of Art**

B.A., M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1964.

ROBERT H. HARVILLE, B.S., M.A. — **Instructor of Health and**
Physical Education
Assistant Football Coach

B.S., M.A., Eastern Kentucky State College. At Eastern since 1965.

BETTY K. HATFIELD, A.B., M.S. in LS. — **Assistant Professor**
of Library Science

A.B., M.S., in L.S., University of Kentucky. At Eastern since 1963.

GLYNNA J. HAYS, B.S., M.S. — **Instructor of Home Economics**
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B.S., Eastern Kentucky State College; M.S., University of Kentucky. At Eastern since 1963.

MARGARET HEINEN, B.A., M.A. — **Instructor of English**

B.A., College of St. Catherine, St. Paul, Minnesota; M.A., University of North Carolina. At Eastern since 1965.

* On Leave 1965-66.

DONALD G. HENRICKSON, B.Mus., M.Mus. — **Assistant Professor of Music**

B.Mus., M.Mus., University of Illinois; additional graduate work, University of Illinois. At Eastern since 1959.

THOMAS C. HERNDON, A.A., B.S., M.A., Ph.D. — **Professor of Chemistry**

A.A., Bethel College; B.S., University of Kentucky; graduate work, University of Chicago; M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1930.

JANET HIBBARD, B.S., M.A. — **Assistant Professor of Business**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1961.

BENTLY J. HILTON, A.B., M.A., Ed.S. — **Assistant Professor of Social Science**

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DOUGLAS P. HINKLE, B.A., M.A. — **Associate Professor of Foreign Languages**

B.A., M.A., University of Virginia; additional work, Illinois State University. At Eastern since 1965.

JANIS HOFFMAN, B.S., M.A. — **Assistant Professor of Elementary Education, Supervising Teacher, Laboratory School**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1965.

EMOGENE M. HOGG, B.S., M.A. — **Assistant Professor of Business**

B.S., Berea College; M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, University of Tennessee. At Eastern since 1960.

GERTRUDE M. HOOD, A.B., A.M. — **Associate Professor of Health and Physical Education**

A.B., Ohio Wesleyan University; A.M., Columbia University. At Eastern since 1928.

WILLIAM A. HOUSEHOLDER, B.S., M.S., Ph.D. — **Associate Professor of Agriculture**

B.S., Colorado State University; M.S., Cornell University; Ph.D., Michigan State University. At Eastern since 1965.

AUGHTUM S. HOWARD, A.B., M.S., Ph.D. — **Professor of Mathematics**

A.B., Georgetown College; graduate work, University of Michigan; M.S., Ph.D., University of Kentucky. At Eastern since 1958.

JOSEPH M. HOWARD, B.S., A.M., Ed.D. — **Professor of Education**

B.S., Western Kentucky State College; A.M., George Peabody College; Ed.D., Teachers College, Columbia University. At Eastern since 1962.

DAVID HUFFSTETLER, B.S., M.S. — **Instructor Health and Physical Education**

B.S., Maryville College; M.S., Indiana University. At Eastern since 1965.

CHARLES T. HUGHES, A.B., M.A. — **Professor of Health and Physical Education**

Diploma, Morton-Elliott Junior College; A.B., University of Kentucky; M.A., University of Michigan. At Eastern since 1929.

ROBERT L. HUNGARLAND, B.S., M.B.A. — **Assistant Professor of Business**

B.S., Oklahoma City University; M.B.A., Southern Methodist University. At Eastern since 1964.

MARY K. INGELS, A.B., M.A. — **Assistant Professor of Modern Foreign Languages**

A.B., M.A., Eastern Kentucky State College; study tour, Ohio University; graduate study, Appalachian State Teachers College, Boone, North Carolina; L'Universite' de Besaucon, France. At Eastern since 1961.

PAUL F. JANZ, A.B., A.M. — **Assistant Professor of English**

Student, St. Louis University, Washington University; A.B., A.M., University of Missouri; additional graduate work, University of Missouri. At Eastern since 1961.

MABEL W. JENNINGS, B.S., M.A., Ed.S. — **Assistant Professor of Education**

B.S., M.A., Eastern Kentucky State College; Ed.S., University of Kentucky; additional graduate work, University of Chicago, University of Kentucky. At Eastern since 1947.

CHARLES D. JEWELL, A.A., B.S., M.A. — **Instructor of English**

A.A., Martin Junior College; B.S., Middle Tennessee College; M.A., George Peabody College for Teachers. At Eastern since 1963.

VIRGINIA N. JINKS, B.S. in Ed. — **Instructor of Health and Physical Education**

B.S. in Ed., Bowling Green State University; additional graduate work, University of Colorado, University of Michigan, University of Utah, Eastern Kentucky State College. At Eastern since 1963.

ROBERT W. JOBES, B.S., M.A. — **Instructor of Mathematics**

B.S., University of Southern Mississippi; M.A., University of Illinois. At Eastern since 1964.

JOE M. JOHNSON, B.S., M.A. — **Assistant Professor of English**

B.S., M.A., University of Georgia; additional work, Emory University. At Eastern since 1962.

JO NELL JONES, A.B., M.A. — **Instructor of Business**

A.B., Bowling Green College of Commerce; M.A., Western Kentucky State College. At Eastern since 1964.

SANFORD L. JONES, B.S., M.S., Ph.D. — **Associate Professor of Biology**

B.S., Eastern Kentucky State College; M.S., University of Kentucky; Ph.D., Medical School, University of Tennessee. At Eastern since 1961.

SHIRLEY KEARNS, JR., A.B., M.A. — **Instructor of Physical Education, Supervising Teacher, Laboratory School**

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky, Eastern Kentucky State College. At Eastern since 1962.

QUENTIN B. KEEN, B.A., M.A., M.A.Ed., Ph.D. — **Associate Professor of History**

B.A., Berea College; M.A., Duke University; M.A.Ed., Eastern Kentucky State College; Ph.D., University of California at Los Angeles; post graduate work, University of Kentucky. At Eastern since 1955.

WILLIAM L. KEENE, B.S., M.A. — **Professor of English**

B.S., M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1926.

LETTY L. KELLY, B.E., M.A. — **Instructor of Elementary Education, Supervising Teacher, Laboratory School**

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A.B., Simmons University; student, University of Wisconsin, Vanderbilt University, University of Tennessee; B.S., M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1928.

ROY KIDD, B.S., M.A. — **Assistant Professor of Health and Physical Education, Head Football Coach**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1963.

SE JIN KIM, B.A., M.A. — **Assistant Professor of Political Science**

B.A., Southwestern at Memphis; M.A., University of Massachusetts; additional graduate work, University of Massachusetts. At Eastern since 1962.

ROBERT G. KING, A.B., M.A., Ph.D. — **Professor of Speech and Drama**

A.B., Georgetown College; M.A., Ph.D., Teachers College, Columbia University. At Eastern since 1965.

DOROTHY KIRKPATRICK, B.S., M.S. — **Assistant Professor of Health and Physical Education**

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NICHOLAS J. KOENIGSTEIN, B.S., M.Mus. — **Assistant Professor of Music, Director of Bands**

B.S., Western Kentucky State College; M.Mus., West Virginia University. At Eastern since 1956.

ROBERT L. LADD, A.B., M.A. — **Associate Professor of Foreign Languages**

A.B., Carson Newman College; M.A., George Peabody College; additional graduate work, Xavier University, Peabody College, University of Kentucky, Miami University. At Eastern since 1963.

H. H. LaFUZE, A.B., M.S., Ph.D. — **Professor of Biology**

A.B., DePauw University; M.S., Ph.D., State University of Iowa; additional graduate work, Northwestern University. At Eastern since 1939.

THOMAS S. LANCASTER, B.M.E., M.M. — **Instructor of Music**

B.M.E., M.M., Indiana University; additional graduate work, University of Illinois. At Eastern since 1964.

ROBERT S. LARANCE, B.S., M.S. — **Associate Professor of Bacteriology**

B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University; additional graduate work, Louisiana State University. At Eastern since 1956.

ROBERT M. LATHROP, B.S., M.A. — **Assistant Professor of Geography**

B.S., University of Kentucky; M.A., University of Georgia; additional graduate work, University of Georgia. At Eastern since 1964.

JOHN W. LEESON, A.B., M.A. — **Assistant Professor of English**

Student, Guilford College; A.B., Berea College; M.A., University of Kentucky; additional study, California State College, Long Beach. At Eastern since 1961.

CLYDE J. LEWIS, A.B., M.A., Ph.D. — **Professor of History**

A.B., Eastern Kentucky State College; M.A., University of Cincinnati; Ph.D., University of Kentucky. At Eastern since 1946.

RAYMOND J. LEWIS, B.S., M.A. — **Instructor of Social Science**

B.S., M.A., Kent State University. Additional graduate work, Kent State University and the University of Arizona. At Eastern since 1965.

DONALD LORD, A.B., M.A., Ph.D. — **Assistant Professor of History**

A.B., Oberlin College; M.A., Ph.D., Western Reserve University; additional graduate work, Western Reserve University. At Eastern since 1964.

VICTOR LOTRICH, B.A., M.A. — **Instructor of Biology**

B.A., M.A., Colorado State College; additional graduate work, Kansas State University. At Eastern since 1964.

JACK A. LUY, B.S., M.S., Ed.D. — **Associate Professor of Industrial Arts**

B.S., M.S. Stout State University; Ed.D., University of Missouri. At Eastern since 1964.

RUTH A. McCANN, B.S., M.A. — **Instructor of Business Supervising Teacher, Laboratory School**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1962.

ROSE ANN McGINNIS, B.A., M.S. **Instructor of Mathematics**

B.A., Transylvania College; M.S.. University of Kentucky. At Eastern since 1965.

ALVIN McGLASSON, B.S., M.S. **Associate Professor of Mathematics**

B.S., Eastern Kentucky State College; M.S., University of Kentucky; additional graduate work, University of Kansas. At Eastern since 1949.

ROBERT F. McGUIRE, A.B., M.S. **Instructor of Mathematics and Science**
Supervising Teacher, Laboratory School

A.B., Union College; M.S., University of Tennessee; additional graduate work at University of Tennessee and Eastern Kentucky State College. At Eastern since 1964.

WILLARD THOMAS McHONE, A.B., M.Ed. **Assistant Professor of Art**

A.B., Eastern Kentucky State College; M.Ed., University of Louisville. At Eastern since 1955.

ALEX GENTRY McILVAINE, B.S., M.A. **Associate Professor of Business**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1947.

FRANCES M. McPHERSON, B.Mus., M.Mus. **Associate Professor of Music**

B.Mus., Lindenwood College; M.Mus., Michigan State College; student, Rudolph Ganz, John Thompson, Horner Conservatory; Academie Marshall, Barcelona, Spain; Xavier Montsalvatge, composition; Aliia de Larrocha, piano. At Eastern since 1944.

WELLINGTON MADENFORT, B.A., M.Ed. **Associate Professor of Art**

B.A., M.Ed., Penn State University; additional graduate work at Penn State University. At Eastern since 1965.

ARTHUR J. MANGUS, JR., A.B., M.A. **Assistant Professor of English**

Student, Marshall College, Richmond Professional Institute, Texas College of Arts and Industries; A.B., Concord College; M.A., Marshall College; additional graduate work, University of Kentucky. At Eastern since 1959.

PHILIP H. MANKIN, B.S., M.A. **Associate Professor of English**

B.S., M.A., George Peabody College for Teachers; additional graduate work, Vanderbilt University. At Eastern since 1957.

WALTER MARCUM, B.S., M.A. **Associate Professor of Education**
Director of the Laboratory School

B.S., Union College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1964.

H. J. MARSHALL, B.A., M.Ed. **Instructor of Art**

B.A., University of Idaho; Special Training, New York School of Interior Design; M.Ed., Miami University, Oxford, Ohio; advanced work, Pond Farm Pottery, Marguerite Wildenhain, Guerneville, California, Summer Studio; advanced graduate work, Ohio State University. At Eastern since 1965.

HENRY G. MARTIN, B.A., M.A., Ed.D. — **Professor of Education**
Dean of Students

B.A., Berea College; M.A., University of Kentucky; Ed.D., University of Tennessee. At Eastern since 1955.

LARRY O. MARTIN, B.S., M.A. — **Instructor of Industrial Arts**
Director of Auxiliary Enterprises

B.S., M.A., Eastern Kentucky State College. At Eastern since 1960.

DANIEL H. MATULIONIS, B.S., M.S. — **Instructor of Biology**

B.S., Wisconsin State College; M.S., University of Illinois. At Eastern since 1965.

MILDRED MAUPIN, B.S., M.A. — **Instructor of Health and Physical Education**

B.S., Appalachian State Teachers College; additional graduate work, Appalachian State Teachers College; M.A., Eastern Kentucky State College. At Eastern since 1962.

JOHN L. MEISENHEIMER, B.A., Ph.D. — **Assistant Professor of Chemistry**

B.A., Evansville College; Ph.D., Indiana University; post-doctoral research, Indiana University. At Eastern since 1963.

VICTOR MESSMER, B.S., M.B.A. — **Instructor of Business**

B.S., Eastern Kentucky State College; M.B.A., University of Kentucky; additional graduate work, Case Institute of Technology. At Eastern since 1961.

GLORIA JEAN METCALF, B.S., M.A. — **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College; additional graduate work at Eastern Kentucky State College. At Eastern since 1964.

GERALD W. MILLER, B.S., M.A. — **Assistant Professor of Art**

B.S., Ball State Teachers College; M.A., University of Denver; additional graduate work, Indiana University, Michigan State University, University of Denver. At Eastern since 1961.

MARGARET H. MOBERLY, B.S., M.B.A. — **Associate Professor of Business**

B.S., Eastern Kentucky State College; M.B.A., University of Chicago; additional graduate work, University of Kentucky. At Eastern since 1946.

RUSSELL G. MOBLEY, A.B., M.A. — **Instructor of Speech, Drama and English**
Supervising Teacher, Laboratory School

A.B., M.A., University of Kentucky. At Eastern since 1964.

WILLIE MOSS, B.S., M.A. — **Associate Professor of Home Economics**

B.S., Western Kentucky State College; M.A., University of Kentucky; additional graduate work, University of Kentucky, Merrill Palmer School, University of Tennessee. At Eastern since 1952.

JOSEPH C. MOULEDOUS, B.A., M.A. — **Assistant Professor of Sociology**

B.A., M.A., Louisiana State University; additional graduate work, University of Kentucky. At Eastern since 1964.

EDSEL R. MOUNTZ, B.S., M.A. — **Assistant Professor of Business**

B.S., Eastern Kentucky State College; M.A., University of Kentucky. At Eastern since 1956.

THOMAS D. MYERS, B.S., M.S., Ed.D. — **Assistant Professor of Health and Physical Education**

B.S., M.S., Bowling Green State University; Ed.D., Temple University. At Eastern since 1964.

THOMAS E. MYERS, B.A., M.A. — **Assistant Professor of Industrial Arts**

B.A., M.A., North Texas State University; additional graduate work, University of Kentucky and Colorado State College, Greeley, Colorado. At Eastern since 1952.

EMMA VIVIAN NEWPORT, B.A., M.A., Ph.D. — **Associate Professor of English**

B.A., M.A., University of Arizona; Ph.D., George Peabody College for Teachers. At Eastern since 1965.

GEORGE D. NIVA, B.S., M.S. — **Instructor of Health and Physical Education**

B.S., M.S., University of Illinois; additional graduate work, University of Illinois. At Eastern since 1965.

HOYT W. NOBLE, B.S., C.P.A., LL.B. — **Assistant Professor of Business**

B.S., LL.B., University of Kentucky; Certified Public Accountant. At Eastern since 1964.

CARL OAKLEY, B.S., M.A. — **Instructor of Health and Physical Education**
Assistant Football Coach

B.S., Eastern Kentucky State College; M.A., Morehead State College. At Eastern since 1964.

WALTER M. ODUM, B.A., M.A. — **Assistant Professor of History**

B.A., M.A., Florida State University; additional graduate work, Florida State University. At Eastern since 1964.

FREDERIC D. OGDEN, A.B., Ph.D. — **Dean of the School of Arts and Sciences**
Professor of Political Science

A.B., Tusculum College; Ph.D., Johns Hopkins University. At Eastern since 1961.

JANET OLDHAM, B.S., M.S. — **Assistant Professor of English**

B.S., North Central College; M.S., University of Illinois; additional graduate work, Eastern Kentucky State College, University of Kentucky, Columbia University. At Eastern since 1962.

***ROBERT L. OPPELT, B.S., M.S., A.Mus.D.** — **Associate Professor of Music**
Conductor of Eastern Orchestra

B.S., M.S., University of Illinois; A.Mus.D., Eastman School of Music, University of Rochester; two summers, Berkshire Music Center; Conductor, Eastern Orchestra; Summer, 1961, Danforth Grant, study with William Primrose. At Eastern since 1956.

* On Leave First Semester 1965.

CLYDE L. ORR, B.S., M.S., Ed.D. — **Professor of Education**
Dean of the Graduate School

B.S., Lincoln Memorial University; M.S., University of Tennessee; Ed.D., University of Kentucky. At Eastern since 1961.

GENEVA W. OWENS, A.B., M.A. — **Assistant Professor of English**

A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1960.

SMITH PARK, B.S., M.S., Ph.D. — **Professor of Mathematics**

B.S., M.S., Ph.D., University of Kentucky. At Eastern since 1923.

WILLIS M. PARKHURST, A.B., M.S. — **Associate Professor of Psychology**

A.B., M.S., Indiana State Teachers College; additional graduate work, Purdue University, George Peabody College for Teachers. At Eastern since 1955.

ALFRED L. PATRICK, B.S., M.Ed., Ed.D. — **Associate Professor of Business**

B.S., M.Ed., Virginia Polytechnic Institute; Ed.D., University of Tennessee. At Eastern since 1965.

DALE R. PATRICK, B.S., M.S. — **Assistant Professor of Industrial Arts**

B.S., M.S., Indiana State Teachers College; additional graduate work, Indiana State University. At Eastern since 1956.

KERMIT PATTERSON, B.S., M.B.A. — **Assistant Professor of Business**

B.S., M.B.A., University of Kentucky; additional graduate work, Case Institute of Technology, University of Kentucky. At Eastern since 1955.

J. HUNTER PEAK, A.B., M.A., Ph.D. — **Professor of Spanish**

A.B., Hampden-Sydney College; M.A., Ph.D., University of North Carolina. At Eastern since 1964.

JUANITA PEAK, A.B., M.A. — **Assistant Professor of French**
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A.B., University of Kentucky; M.A., Middlebury College French School, Vermont; additional graduate work, University of Kentucky. At Eastern since 1964.

DWYNAL BICKFORD PETTENGILL, A.B., M.A., Ph.D. — **Professor of Political Science**

A.B., M.A., University of Florida; Ph.D., The Johns Hopkins University. At Eastern since 1965.

IONA M. PETTENGILL, B.S. — **Instructor of Nursing**

B.S., University of Maryland. At Eastern since 1965.

ODELL PHILLIPS, B.S., M.S. — **Assistant Professor of Health and Physical Education**

B.S., Murray State College; M.S., University of Alabama; additional graduate work, Florida State University. At Eastern since 1965.

RONALD E. PIERCE, B.S., M.S. — **Instructor of Mathematics**

B.S., Morehead State Colege; M.S., University of Kentucky. At Eastern since 1964.

J. C. POWELL, A.B., M.Ed. — **Associate Professor of Education**
Executive Dean

A.B., University of Kentucky; M.Ed., University of Louisville; additional graduate work, University of Kentucky. At Eastern since 1960.

WILLIAM PRESCOTT, B.S., M.A.E. — **Instructor of Music**

B.S., John Carroll University; M.A.E., University of Florida; graduate studies, Western Reserve University, University of Miami, Florida. At Eastern since 1964.

GLENN E. PRESNELL, B.S. — **Assistant Professor of Health and Physical Education, Director of Athletics**

B.S., University of Nebraska; graduate student, University of Nebraska, Eastern Kentucky State College. At Eastern since 1947.

RICHARD B. PRICE, B.A., M.A. — **Instructor of English**

B.A., M.A., Johns Hopkins University; additional graduate work, University of Leeds, England. At Eastern since 1964.

HENRY F. PRYSE, A.B., M.A. — **Assistant Professor of Social Science**
Director of College-School Relations

A.B., Centre College; M. A., Eastern Kentucky State College; additional graduate work, Eastern Kentucky State College, University of Kentucky. At Eastern since 1959.

ALLEN E. RAGAN, A.B., M.A., Ph.D. — **Associate Professor of Political Science**

A.B., Miami University, Oxford, Ohio; M.A., University of Chicago; Ph.D., Ohio State University. At Eastern since 1963.

VERA V. RALEIGH, A.B., M.A. — **Assistant Professor of Geography**

A.B., Eastern Kentucky State College; M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1959.

IMOGENE RAMSEY, B.S., M.S. — **Instructor of Education**

B.S., M.S., Eastern Kentucky State College; additional work at Eastern. At Eastern since 1965.

RUTH RANKIN, A.B., M.A. — **Instructor of English and Social Studies**
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A.B., Asbury College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1964.

ROBERT P. RECKTENWALD, B.A., M.A. — **Instructor of English**

B.A., University of Florida; M.A., University of North Carolina; additional graduate work at University of Tennessee. At Eastern since 1964.

HELEN M. REED, A.B., B.A., M.A., Ed.D. — **Professor of Education**

A.B., State College of Iowa; B.A., M.A., George Peabody College for Teachers; Ed.D., Indiana University. At Eastern since 1965.

GABRIEL ANGEL de los REYES, B.S., M.A. — **Instructor in Foreign Languages**

B.S., University of Havana, Cuba; M.A., Louisiana State University. At Eastern since 1965.

JAMES E. RHEIN, B.S., M.A. — **Assistant Professor of Art**

B.S., M.A., Eastern Kentucky State College; additional graduate work, Miami University, Indiana University. At Eastern since 1963.

***BYNO R. RHODES, B.A., M.A., Ph.D.** — **Professor of English**

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MARY F. McKINNEY RICHARDS, B.S., M.A. — **Associate Professor of Geography**

Diploma, Eastern Kentucky State Normal School; B.S., M.A., George Peabody College for Teachers. At Eastern since 1923.

R. R. RICHARDS, A.B., M.B.A. — **Professor of Business**

A.B., Eastern Kentucky State College; graduate student, University of Kentucky: M.B.A., Boston University; additional graduate work, Boston University, University of Southern California. At Eastern since 1929.

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A.B., A.M. Ed., Eastern Kentucky State College; A.M. Eng., Ph.D. Eng., University of Southern California; additional work, University of Kentucky, University of California. At Eastern since 1963.

HAROLD RIGBY, B.S., M.A. — **Instructor of Music**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1933.

THOMAS B. RIPY, JR., A.B., M.A. — **Assistant Professor of Social Science**

A.B., Transylvania College; M.A., University of Kentucky. At Eastern since 1965.

GEORGE W. ROBINSON, B.S., M.S., Ph.D. — **Associate Professor of History**

B.S., M.S., Ph.D., University of Wisconsin. At Eastern since 1956.

HAROLD E. ROBISON, B.M.Ed., M.Mus. — **Assistant Professor of Music**

B.M.Ed., M.Mus., West Virginia University. At Eastern since 1960.

MARGARET E. ROSER, A.B., M.A. — **Assistant Professor of Library Science**

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CHARLES L. ROSS, A.B., M.A., Ed.D. — **Professor of Education**

A.B., Tusculum College; M.A., George Peabody College; Ed.D., University of Tennessee. At Eastern since 1963.

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B.S., M.S., North Texas State College; additional graduate work, Southern Methodist University, North Texas State College; Ed.D., University of Illinois. At Eastern since 1951.

* On Leave First Semester 1965.

DARNELL SALYER, B.S., Ph.D. — **Associate Professor of Chemistry**

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ETHEL SAMS, B.S., M.A. — **Assistant Professor of Education**

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MARY CLARKE SANTOPOLO, A.B., M.A., Ph.D. — **Associate Professor of Political Science**

A.B., College Misericordia; M.A., Fordham University; Ph.D., Johns Hopkins University. At Eastern since 1964.

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MAMIE W. SCOTT, A.B., M.A. — **Associate Professor of Education**

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B.Mus., B.A., University of Kansas; M.Mus., Northwestern University; additional graduate work, Columbia University; private study, Christiansen Choral School, New York City College. At Eastern since 1938.

EDWARD SEXTON, A.B., M.S. — **Instructor of Physics**

A.B., Austin Peay State College; M.S., University of Georgia. At Eastern since 1965.

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PAUL SEYFRIT, B.S., M.A. — **Assistant Professor of Psychology Dean of Men**

B.S., M.A., University of Louisville; additional work at University of Louisville. At Eastern since 1965.

DONALD SHADOAN, B.S., M.S., Ph.D. — **Assistant Professor of Business**

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EVA I. SINGLETON, B.A., M.A. — **Instructor of English**

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MILITARY SCIENCE STAFF

COLONEL EVERETT N. SMITH, A.B. **Professor of Military Science**

A.B., Maryville College; graduate of Basic Officer's Course, Division Officer's Course, Advanced Officer's Course, The Artillery School, Fort Sill, Oklahoma; The Command and General Staff College, Fort Leavenworth, Kansas; Executive Officer's Course, Fort Meade, Maryland; Senior Officer Nuclear Weapons Employment Course, Fort Leavenworth, Kansas; The Airborne Course, Fort Benning, Georgia; The Indian Defense Service Staff College, Wellington, South India; Unconventional Warfare Course, Special Warfare School, Fort Bragg, North Carolina; Military Assistance Vietnam, Military Assistance Institute, Arlington Tower, Arlington, Virginia. At Eastern since August 1964.

MAJOR ROY D. SIMS, B.S. **Associate Professor of Military Science**

B.S., University of Kentucky; graduate work, Eastern Kentucky State College; graduate of: Basic Infantry Officer's Course, and Advanced Infantry Officer's Course, The Infantry School, Fort Benning, Georgia. At Eastern since January 1963.

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CAPTAIN DAN H. McCLENDON, A.B. **Assistant Professor of Military Science**

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CAPTAIN RONALD L. COFFMAN, B.S. **Assistant Professor of Military Science**

B.S., Eastern Kentucky State College; graduate work, Eastern Kentucky State College; graduate of: Anti Aircraft Artillery Officer's Basic Course, Fort Bliss, Texas; Mountain Instructors Course, Fort Greely, Alaska; Associate Field Artillery Battery Officer's Course, Nuclear Projectile Assembly Course and The Artillery Officer's Advanced Course, Fort Sill, Oklahoma; The Airborne Course, Fort Benning, Georgia. At Eastern since January 1964.

CAPTAIN JOHN R. PIPKIN, A.B. **Assistant Professor of Military Science**

A.B., Washington and Lee University; graduate work, Eastern Kentucky State College; graduate of: Basic Officer's Course, Fort Sill, Oklahoma; Battery Officer's Course, Fort Bliss, Texas; Artillery Officer's Career Course, Fort Still, Oklahoma. At Eastern since September 1963.

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SERGEANT MAJOR E-9 IVAN R. STEELE **Instructor**

Graduate of: Noncommissioned Officer's Academy, Fort Benning, Georgia; Seventh Army Noncommissioned Officer's Academy, Munich, Germany; Method of Instruction School, Fort Knox, Kentucky. At Eastern since December 1964.

MSGT E-8 RICHARD J. OLGUIN **Instructor**

Graduate of: Airborne Jump School, Airborne Glider School, Airborne Heavy Drop School, and Airborne Jumpmaster School, Fort Benning, Georgia. At Eastern since June 1962.

SFC E-7 LINVEL W. RAY **Chief Clerk**

At Eastern since December 1962.

SFC E-7 VIRL F. AUTERSON **Supply Sergeant**

At Eastern since August 1961.

SSGT E-6 GENE B. SEWELL **Instructor**

At Eastern since April 1965.

SSGT E-6 FREDRICK K. MYNATT **Instructor**

At Eastern since December 1962.

SSGT E-6 GEORGE N. WALKER **Instructor**

At Eastern since January 1964.

SSGT E-6 JAMES O. BAKER **Rifle Team Coach**

At Eastern since January 1965.

SP/5 E-5 ALVIN C. RUSSELL **Clerk**

VIRGINIA M. EVERSOLE **Secretary to Professor of Military Science**

At Eastern since September 1956.

RETIRED FACULTY

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MARY C. BALDWIN, A.B., Assistant Professor of English, 1958-1964.

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MARY K. BURRIER, B.S., M.S., Associate Professor of Home Economics, 1925-1963.

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BROWN E. TELFORD, B.S., Associate Professor of Music, 1917-1962.

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RETIRED ADMINISTRATIVE STAFF

KATHLEEN BALES, Night Supervisor, Burnam Hall, 1950-1963.

KATHARINE CHENAULT, A.B., Hostess, Student Union Building, 1940-1959.

NELLIE HILL, Cafeteria Manager, 1943-1962.

EARL P. McCONNELL, Bookkeeper, 1923-1958.

ELLEN SMATHERS, Night Supervisor, 1957-1964.

AILEEN WICKERSHAM, Secretary, Business Office, 1954-1963.

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Marion Royal, A.B.....Director, Women's Residence Halls
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Athletics

S. Park, Ambrose, Barr, Coates, Powell, R. Richards, Stocker, Vickers, Whalin, Whitt, Woods. Presnell, ex-officio member.

Fine Arts

Shindelbower, Baker, Campbell, Gatwood, Koenigstein, McPherson, Oppelt, Seevers, Henrickson, and two students from each class.

Heritage

Coates, M. Richards, Engle, Jr., C. Gibson, Jennings C. Lewis, McHone, Richardson, Sexton.

Museum

Allen, Berge, Gatwood, Keene, Kennamer, C. Lewis, Moberly, Sprague, Stocker.

Social

Bradley, H. Chrisman, Gatwood, McHone, H. Martin, Moss, C. F. Van Cleve, Vickers, and two students from each class.

Student Loans, Scholarships, and Fellowships

Vickers, Ambrose, Bradley, H. Martin, Ogden, Orr, Powell, Rowlett.

Student Organizations and Activities

Stocker, Alexander, R. Chrisman, Darling, Hilton, LaFuze, McHone, G. Robinson, Seevers, Whalin, C. Woods. Bradley, H. Martin, ex-officio members.

Student Welfare

Whalin, Ross, Ambrose, H. Chrisman, Ingels, G. McIlvaine, Shindelbower, Taylor, Whitt. Bradley, H. Martin, ex-officio members.

INSTRUCTION COMMITTEES

General Education

C. Lewis, Chairman: Deck, Herndon, J. Howard, J. Young Luy, McGlasson, McIlvaine, Peak, Richardson, Rowlett, Shindelbower.

Graduate Council

Orr, Chairman: K. Adams, Barr, Coates, Herndon, LaFuze, T. D. Myers, Ogden, Park, Patrick, Robinson, Ross, Rowlett, Sprague, Stratemeyer, Young.

Continuing Education

....., Chairman: Alexander, Ambrose, Arterberry, Barr, Bartlee, Feltner, Hungarland, Owens, Pryse, Sexton, Thurman.

Teacher Education

Coates, Chairman: Acker, K. Adams, Ambrose, Barr, Brown, Gentry, George, Marcum, Moberly, Ogden, Orr, Reed, Rowlett.

Curriculum Committee

Park, Chairman: Barr, Coates, Ogden, Orr, Rowlett, Young.

Professional Growth and Faculty Welfare

C. Lewis, Chairman: Berge, Black, Dozier, Epstein, Hilton, S. Jones, McHone, Moss, T. E. Myers, Owens, Powell, Shadoan, Woolum.

Library Committee

....., Chairman: Allen, Baladouni, R. Chrisman, H. Davis, Grise, Gulley, Householder, LaFuze, Rhodes, Snowden.

Improvement of Instruction

K. Adams, Chairman: H. Chrisman, H. Davis, French, A. Howard, Ladd, LaFuze, Oldham, Rhein, R. Richards, Snowden, Sprague, Stebbins, Mrs. M. L. Taylor.

Studies and Research

Acker, Chairman: Ambrose, Barr, Black, Buchholz, Engle, Jr., Kennamer, Meisenheimer, Parkhurst, D. Pettengill, Powell, Rhodes, Rowlett, Salyer, Shadoan, Swinford.

Radio, Television, and Audio-Visual Committee

J. Howard, Chairman: Alexander, R. Chrisman, Henrickson, R. Jordan, Keene, Larance, Marcum, Oppelt, Patrick, Robinson, Ross, Swinford.

Council on Instruction

Dean of Academic Affairs, Chairman: Dean, School of Arts and Sciences, Dean, School of Business, Dean, School of Education, Associate Dean for Teacher Education, Dean, School of Technology, Associate Dean for Continuing Education, the Director of Libraries, the Director of Research, the Dean of Central University School.

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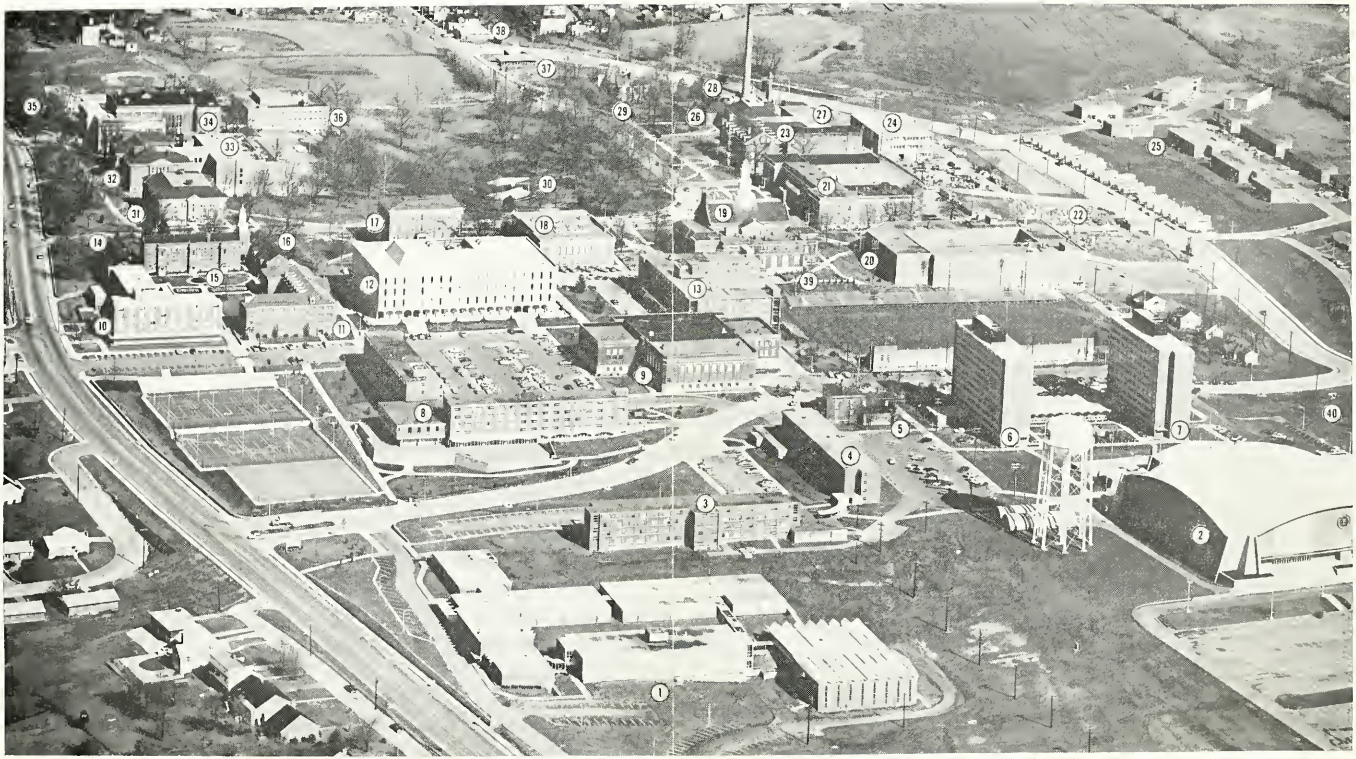

Key To Main Campus

1. Model Laboratory School
2. Alumni Coliseum
3. Mattox Hall
4. O'Donnell Hall
5. Stateland Hall
6. Todd Hall
7. Dupree Hall
8. Martin Hall
9. Weaver Health Building
10. Earle Combs Hall
11. Keith Hall
12. Combs Classroom Building
13. McGregor Hall
14. McCreary Hall
15. Beckham Hall
16. Miller Hall
17. University Building
18. John Grant Crabbe Library
19. Keen Johnson Student Union Building
20. Case Hall
21. Burnam Hall
22. Sidney Clay Hall
23. Sullivan Hall
24. Ault Service Building
25. Brockton
26. Fitzpatrick Arts Building
27. Gibson Addition (Industrial Arts)
28. Heating Plant
29. Turley Home Management House
30. Van Peursem Music Pavilion
31. Cammack Building
32. Roark Hall
33. Memorial Science Building
34. Coates Administration Building
35. Blanton House
36. Foster Music Building
37. Methodist Student Center
38. Baptist Student Union
39. Hanger Stadium (Site, Proposed Student Center)
40. Palmer Hall